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Atlas of Gull and Tern Colonies: North Carolina to Key West, Florida (including Pelicans, Cormorants and Skimmers)



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Fish and Wildlife Service

U.S. Department of the Interior

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- To strengthen the Fish and Wildlife Service in its role as a primary source of information on national fish and wildlife resources, particularly in respect to environmental impact assessment.
- To gather, analyze, and present information that will aid decisionmakers in the identification and resolution of problems associated with major changes in land and water use.
- To provide better ecological information and evaluation for Department of the Interior development programs, such as those relating to energy development.

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ATLAS OF GULL AND TERN COLONIES:
NORTH CAROLINA TO KEY WEST, FLORIDA
(INCLUDING PELICANS, CORMORANTS AND SKIMMERS)

WHOI
DOCUMENT
COLLECTION

by

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PREFACE

This report is one of several recounting the results of 1976-77 surveys of nesting colonies of colonial waterbirds in coastal areas along the U.S. Atlantic coast, Great Lakes, and the northern Gulf of Mexico.

Publication of the results will aid resource managers. But also the hope is that as citizens learn about the resources, they will appreciate even more the interrelationships among coastal processes and resources.

Comments or requests for this report should be directed to:

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1010 Gause Boulevard
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SUMMARY

Colonies of pelicans, cormorants, gulls, terns and black skimmers were inventoried in 1976 from North Carolina to Key West, Florida. Five teams of investigators used ground and aerial counts of nests or adults, or both, throughout the spring and summer. This atlas shows the location of each known active colony and includes information on nesting site and substrate, species composition and numbers, nesting stage, and inventory method. Field work was conducted in conjunction with a survey of wading birds under the direction of T. Custer and R. Osborn at the Patuxent Wildlife Research Center.

CONTENTS

	<u>Page</u>
PREFACE	iii
SUMMARY	iv
ACKNOWLEDGMENTS	vi
INTRODUCTION	1
METHODS	3
ORGANIZATION OF THE ATLAS	3
LOCATOR FOR COLONY MAPS	5
INDEX TO COLONY MAPS	6
LIST OF COLONIES	7
REFERENCES	12
COLONY TABLES AND MAPS	13
APPENDIXES	
A. Index to Colonies by Species	101
B. Index to Colonies by State	111

ACKNOWLEDGMENTS

We thank all the volunteers who contributed colony data to this atlas. D. Brown provided technical assistance; P. McDonald and M. Civello prepared the tables and text. The Massachusetts Cooperative Wildlife Research Unit, Migratory Bird and Habitat Research Laboratory, and Patuxent Wildlife Research Center provided administrative support throughout the preparation of this report.

INTRODUCTION

The southeastern Atlantic shore of the United States is a mosaic of marshes, sandy barrier beaches, maritime forests, and mangroves. Such habitats are biologically diverse and are among the most productive ecosystems in the world (Odum 1971).

Increased human recreation and development pressures in these coastal areas has resulted in greater disturbance to the associated coastal resources. Recognizing the need to monitor certain important wildlife resources, the U.S. Fish and Wildlife Service initiated programs in 1975 to inventory colonially nesting waterbirds along the east and gulf coasts of the United States and in Alaska.

Many species of waterbirds were nearly extirpated in the late 19th and early 20th centuries by millinery traders and egg collectors. Although protection allowed most species to recover during the middle part of this century, pollution problems and habitat destruction have intensified in the past 30 years and continue to threaten breeding populations. The stability of coastal bird populations may then reflect the relative quality of their wetland habitats.

This is one of a series of atlases showing the results of coastal surveys and inventories of colonial waterbirds (see also Portnoy 1977, Sowls et al. 1978, Osborn and Custer 1978, Erwin and Korschgen 1979). This atlas documents the location and abundance of pelicans, cormorants, gulls, terns, and black skimmers, that nested in 1976 from the Virginia-North Carolina border to Key West, Florida (Table 1). These species were included in the atlas by Osborn and Custer (1978) but only for those locations where herons also nested. To that extent, there is duplication between the two atlases.

Information in this atlas includes: colony location, species composition and estimated number of breeding adults, site description and nest substrates, stage of nesting, census method and date of census. Table 2 summarizes the total number of colonies and breeding birds found and the frequency of occurrence of all species censused for this atlas.

Table 1. Colonial species included in censuses of south Atlantic U.S. coast colonies.

Common name	Scientific name
Brown pelican	<u>Pelecanus occidentalis</u>
Double-crested cormorant	<u>Phalacrocorax auritus</u>
Great black-backed gull	<u>Larus marinus</u>
Herring gull	<u>Larus argentatus</u>
Laughing gull	<u>Larus atricilla</u>
Gull-billed tern	<u>Gelochelidon nilotica</u>
Forster's tern	<u>Sterna forsteri</u>
Common tern	<u>Sterna hirundo</u>
Least tern	<u>Sterna albifrons</u>
Royal tern	<u>Sterna maxima</u>
Sandwich tern	<u>Sterna sandvicensis</u>
Caspian tern	<u>Sterna caspia</u>
Black skimmer	<u>Rynchops nigra</u>

Table 2. Total number of colonies and breeding birds and frequency of occurrence of gulls, cormorants, gulls, terns and skimmers of the south Atlantic U.S. Coast, 1976.

Species	Colonies	Breeding birds	Percent of total colonies	Percent of total breeding birds
Brown pelican	21	11,836	6.0	8.0
Double-crested cormorant	39	12,922	11.0	8.8
Great black-backed gull	1	6	.3	.004
Herring gull	7	640	2.0	.4
Laughing gull	37	37,892	10.5	25.7
Gull-billed tern	36	1,314	10.2	.9
Forster's tern	16	1,610	4.5	1.1
Common tern	51	8,088	14.4	5.5
Least tern	78	4,894	22.1	3.3
Royal tern	11	59,238	3.1	40.2
Sandwich tern	7	1,704	2.0	1.2
Caspian tern	1	18	.3	.01
Black skimmer	48	7,153	13.6	4.9
	353	147,315	100	100.014

METHODS

Five teams of investigators conducted intensive surveys and inventories during the spring and summer of 1976 (Table 3) from North Carolina to Key West, Florida. Inventories were complete in all areas except Georgia which was less intensively searched due to limited time and personnel. Estimates and counts of all nesting species were made on foot or by use of fixed-wing aircraft and boats. Aircraft were used primarily in the initial location of colonies. The census method employed at each site depended on the colony size and accessibility, time, and work force available. In general, counts of active nests were preferred to counts of adults because they indicated a total nesting population and exclude the nonbreeding "surplus" birds associated with the colony (Kadlec and Drury 1968). In response to a protracted nesting season in southern regions (e.g., cormorants may nest in any month of the year in Florida) several inventories were made at the same colonies from late winter through the summer.

Standardized census forms were provided to each investigator to ensure that the data were collected uniformly. Survey results have been entered into a data bank at the Colonial Bird Register, Laboratory of Ornithology, Cornell University, Ithaca, New York.

ORGANIZATION OF THE ATLAS

The atlas is arranged with 14 U.S. Geological Survey maps showing colony locations, followed by tables summarizing the census results for each colony on that map. The maps are photographically reduced from a scale of 1:250,000, and arranged consecutively from north to south (Figure 1). Each map is assigned a three-digit locator number. Colony locations are referenced with a six-digit number, the first three identifying the corresponding USGS map and the last three identifying the individual colony. Colonies described in earlier atlases (Osborn and Custer 1978, Erwin and Korschgen 1979) have retained their previously assigned number. In addition, code numbers used by Parnell and Soots (1979) have been listed for those colonies in North Carolina.

Tables following each map, describe colonies by name, state, latitude and longitude, nest substrate, species composition, date of census, number of breeding birds, nesting stage and inventory method. General site descriptions include marsh, swamp, barrier beach, island-coastal (nonbarrier), or urban. Nest site (micro-habitat) categories include sand or shell, dredged material, driftage, herbaceous vegetation, trees or shrubs and artificial (e.g. roof tops, runways). Nesting stages are described as pairing, prenesting, egg laying, incubation, hatching, downy young, feathered young, flying young, renesting, loafing, abandoned or unknown. Inventory methods include aerial estimates (fixed-wing or rotary), ground estimate, aerial photographic count, adult or nest count (ground), and sample count (point-centered quarter method or line transect).

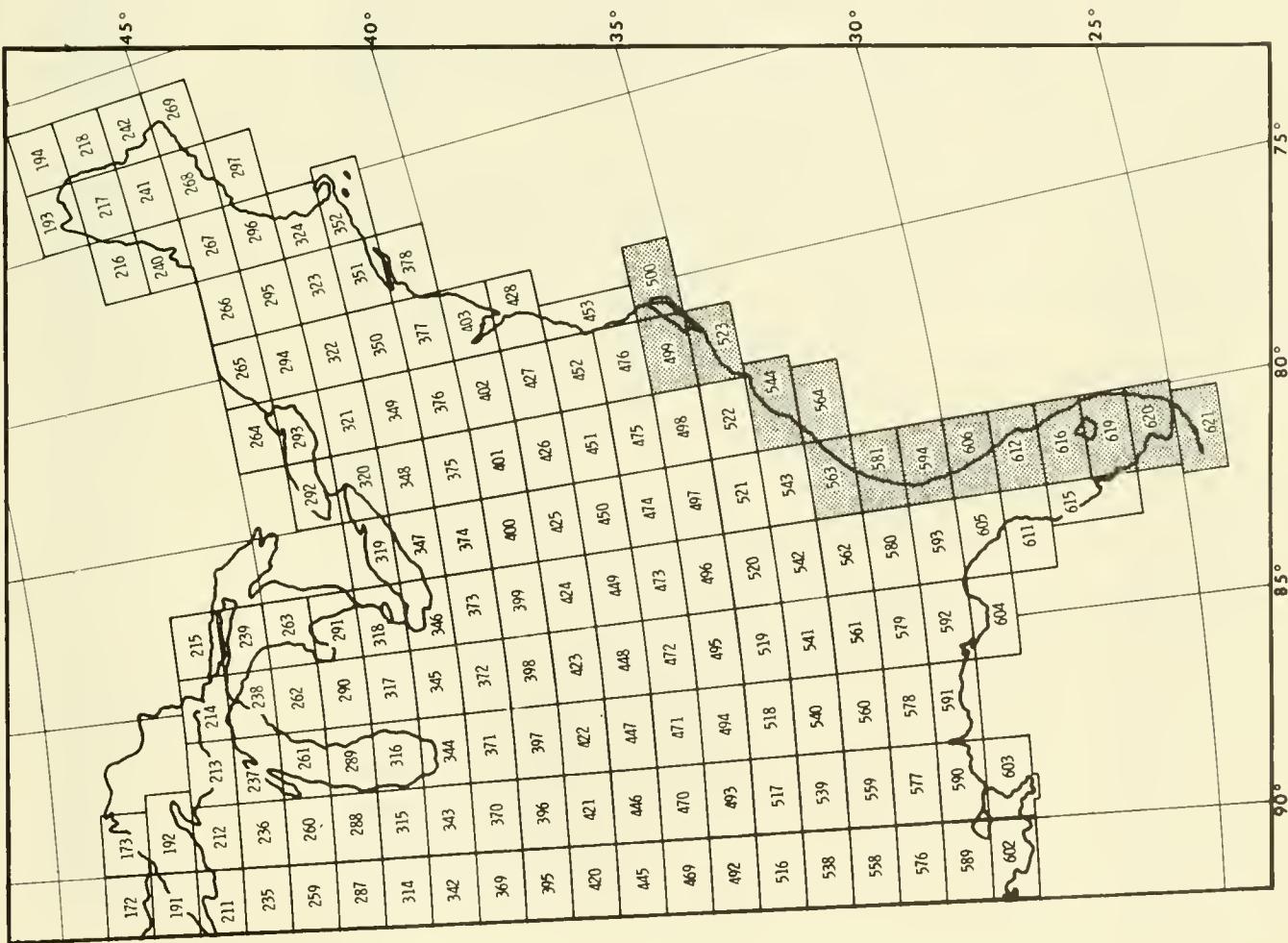
Table 3. Principal investigators¹ and their census areas in 1976.

Investigator	Area
James Parnell Department of Biology University of North Carolina - Wilmington Wilmington, NC	North Carolina
Robert Soots, Jr. Department of Biology Campbell University Buies Creek, NC	North Carolina
Alexander Sprunt IV Research Department National Audubon Society Tavernier, FL	South Carolina
John C. Ogden Research Department National Audubon Society Tavernier, FL	South Carolina
Ronald Odom Georgia Department of Natural Resources Game and Fish Division Social Circle, GA	Georgia ²
Stephen Nesbitt Florida Game & Freshwater Fish Commission Gainesville, FL	Florida (from Merritt Island north)
James Kushlan and William Robertson, Jr. National Parks Service Everglades National Park Homestead, FL	Florida (south of Merritt Island to and including Keys)

¹ Other contributors were North Carolina -- L. Jernigan, M. Pate; South Carolina -- D. Forsythe, G. Garris, L. Pate, F. Probst, A. Von Harten; Florida -- O. Bass, H. Kale II, J. Ogden, D. White

² Incomplete coverage.

Locator for Colony Maps



Map Number	Name
499	Rocky Mount, NC
500	Manteo, NC
523	Beaufort, NC
544	Georgetown, SC
563	Savannah, GA
564	James Island, SC
581	Brunswick, GA
594	Jacksonville, FL
606	Daytona Beach, FL
612	Orlando, FL
616	Ft. Pierce, FL
619	West Palm Beach, FL
620	Miami, FL
621	Key West, FL

Index to Colony Maps

Map Number	Name	Page
499	Rocky Mount, NC	13
500	Manteo, NC	21
523	Beaufort, NC	31
544	Georgetown, SC	51
563	Savannah, GA	59
564	James Island, SC	63
581	Brunswick, GA	67
594	Jacksonville, FL	69
606	Daytona Beach, FL	73
612	Orlando, FL	75
616	Fort Pierce, FL	79
619	West Palm Beach, FL	83
620	Miami, FL	85
621	Key West, FL	91

List of Colonies

Map Number	Colony Name	Page
499001	Beacon Island (11-04), NC	14
499002	Big Swan Island (06-19), NC	14
499007	North Rock (11-07), NC	14
499009	Ocracoke Flats (11-01), NC	15
499010	North Casey (12-02), NC	15
499011	Unnamed (12-20), NC	15
499012	Portsmouth Island (12-01), NC	16
499013	Shell Point (06-13), NC	16
499014	Rattan Bay (06-18), NC	16
499015	Hog Island Reef (15-10), NC	17
499016	Unnamed (15-09), NC	17
499017	Cedar Island (15-02), NC	17
499018	North Bay (15-01), NC	18
499019	Judith Point (06-14), NC	18
499020	Judith Island Point (06-15), NC	18
499021	Sow Island (06-16), NC	19
499022	Shell Castle (11-06), NC	19
499023	Long Rock (11-05), NC	19
500001	Gull Island (06-12), NC	22
500002	Herring Gull Island (03-05), NC	22
500003	Outer Green, NC	22
500005	Unnamed (03-09), NC	23
500006	Unnamed (03-06), NC	23
500007	Oregon Inlet North (05-01), NC	23
500008	Unnamed (03-07), NC	24
500009	Unnamed (03-12), NC	24
500010	Unnamed (06-07), NC	24
500011	Unnamed (06-08), NC	25
500012	Unnamed (06-04), NC	25
500013	Stumpy Point Bay (06-09), NC	25
500014	Long Shoal Point (50-03), NC	26
500015	Manteo Airport (50-05), NC	26
500016	Hatteras Island (08-01), NC	26
500017	King Island (06-21), NC	27
500018	Royal Tern Island (06-10), NC	27
500019	Hatteras Inlet (06-11), NC	27
500020	Hatteras Inlet (09-04), NC	28
500021	Hatteras Inlet (09-03), NC	28
500022	Ocracoke (09-02), NC	28
500023	Whalebone (03-08), NC	29
500024	Unnamed (10-03), NC	29
500025	Unnamed (03-01), NC	29

Map Number	Colony Name	Page
523001	Alligator Bay (27-04), NC	32
523003	Dump Island (16-01), NC	32
523007	Morgan Island (17-01), NC	32
523011	Shell Island (14-01), NC	33
523013	Woodhouse Island (14-10), NC	33
523014	Core Banks (14-11), NC	33
523015	Big Deep (14-09), NC	34
523016	Tump Island (06-20), NC	34
523017	Unnamed (17-03), NC	34
523018	Unnamed (18-12), NC	35
523019	Bottle Run (18-08), NC	35
523020	Shackleford (20-05), NC	35
523021	Unnamed (18-13), NC	36
523022	Unnamed (20-03), NC	36
523023	Unnamed (22-02), NC	36
523024	Unnamed (22-04), NC	37
523025	Unnamed (20-02), NC	37
523026	Annex Island (21-03), NC	37
523027	Unnamed (21-01), NC	38
523028	Brant Island (20-06), NC	38
523029	Lake Ellis Simon, NC	38
523030	Unnamed (22-08), NC	39
523031	Unnamed (22-26), NC	39
523032	Unnamed (22-40), NC	39
523033	Unnamed (23-10), NC	40
523034	Unnamed (23-11), NC	40
523035	Unnamed (22-45), NC	40
523036	Bogue Inlet (23-04), NC	41
523037	Hammocks Beach (23-02), NC	41
523038	Unnamed (23-14), NC	41
523039	Unnamed (26-07), NC	42
523040	Tiny Triangle (15-14), NC	42
523041	Alligator Bay Main (50-01), NC	42
523042	Unnamed (29-25), NC	43
523043	Topsail South (30-01), NC	43
523044	North Old-Topsail (31-01), NC	43
523045	Unnamed (29-36), NC	44
523046	Rich Inlet South (32-02), NC	44
523047	Unnamed (36-21), NC	44
523048	Bird I. (36-22), NC	45
523049	Shinn Creek (36-03), NC	45
523050	Masonboro Island (35-02), NC	45
523051	Unnamed (36-14), NC	46
523052	Unnamed (37-18), NC	46
523053	Unnamed (39-26), NC	46
523054	Laughing Gull (39-28), NC	47
523055	Chainshot (15-11), NC	47
523056	Harbor (14-03), NC	47

Map Number	Colony Name	Page
523057	Cedar Point (50-02), NC	48
523058	Dump South (16-02), NC	48
523059	Unnamed (16-04), NC	48
523060	Core Banks (14-05), NC	49
523061	New Dump (14-04), NC	49
523062	Core Banks (14-08), NC	49
544005	White Banks, SC	52
544009	Unnamed (50-04), NC	52
544010	Unnamed (45-03), NC	52
544011	Sunset Beach (48-06), NC	53
544012	Unnamed (48-07), NC	53
544013	Waiter Island, SC	53
544014	Magnolia Beach, SC	54
544015	DuBourdieu Beach, SC	54
544016	North Island, SC	54
544017	Sand Bank, SC	55
544018	Cedar Island, SC	55
544019	Unnamed (39-29), NC	55
544020	Unnamed (39-30), NC	56
544021	Royal Tern Island (39-32), NC	56
544022	Unnamed (39-33), NC	56
544023	Carolina Beach (39-49), NC	57
544024	Gull-Billed Tern (39-37), NC	57
544025	Unnamed (40-01), NC	57
544026	Monks Island (43-09), NC	58
563006	Deveaux Bank, SC	60
563012	John's Island Airport, SC	60
563013	Kiawah Island, SC	60
563014	Botany Bay, SC	61
563015	Edinesville Beach, SC	61
563016	Hunting Island, SC	61
563017	Savannah River National Wildlife Refuge, SC	62
564001	Bird Island, SC	64
564006	Northwood Mall, SC	64
564007	Charleston Naval Base, SC	64
564008	Hog Island, SC	65
564009	Riverview Inn, SC	65
564010	Folly River Road, SC	65
564011	Bird Key, SC	66
564012	White Island, SC	66
581025	Pelican Spit, GA	68

Map Number	Colony Name	Page
594012	Little Cumberland Island, GA	70
594013	Long Point, GA	70
594014	Willow Pond Beach, GA	70
594015	Bird Islands, GA	71
606001	New Smyrna Beach, FL	74
606002	Port Orange, FL	74
606003	St. Marks Pond Swamp, FL	74
612001	Bird Island, FL	76
612002	George and Brady Island, FL	76
612003	Hall Island, FL	77
612004	Haulover Canal, FL	77
612007	Moore Creek, FL	77
616001	County Line Spoil, FL	80
616002	Duck Point Spoil, FL	80
616003	Fort Pierce Spoil, FL	80
616004	Grant Farm Island (SW), FL	81
616007	Pelican Island, FL	81
616008	Riomar Spoil, FL	81
616009	Sewall Point East, FL	82
616051	Micco, FL	82
620005	Cowpens Keys, FL	86
620007	Cutler (Paradise Pt.), FL	86
620009	Frank Key, FL	86
620012	Nest Keys - South, FL	87
620016	Sandy Key, FL	87
620046	Curlew Key, FL	87
620053	Man of War Key, FL	88
620054	South of Buoy Key, FL	88
620055	East of Pelican Key, FL	88
620056	Pelican Key, FL	89
620057	Cluett Key, FL	89
621001	Archer Key, FL	92
621002	Barnes Key, FL	92
621004	Big Mangrove Key, FL	92
621005	Buchanan Key, FL	93
621006	Channel Key, FL	93
621007	Cotton Key, FL	93
621008	Cottrell Key, FL	94

Map Name	Colony Name	Page
621009	Crane Key, FL	94
621010	Don Quixote Key, FL	95
621011	Fanny Keys, FL	95
621012	Green Mangrove Key, FL	95
621014	Johnston Key Mangroves, FL	96
621015	Johnston Keys - West, FL	96
621016	Marvin Keys - South, FL	96
621017	Peterson Keys - East, FL	97
621018	Shell Key, FL	97
621020	Tarpon Belly Keys, FL	97
621021	Upper Arsnicker Keys, FL	98
621023	West Bahia Honda Key, FL	98
621026	East Key, FL	98
621027	Rabbit Keys, FL	99
621028	Lower Arsnicker Key, FL	99
621029	Horseshoe Keys - East, FL	99
621030	Teatable Key, FL	100
621031	Bay Key, FL	100

REFERENCES

Erwin, R.M. and C. Korschgen. 1979. Coastal waterbird colonies: Maine to Virginia, 1977--an atlas showing colony locations and species composition. U.S. Fish & Wildlife Service. FWS/OBS-79/08. 647 pp.

Kadlec, J., and W. Drury. 1968. Structure of the New England herring gull population. *Ecology* 49:644-676.

Odum, E. 1971. Fundamentals of ecology. W.B. Saunders Co., Philadelphia, Pa. 574 pp.

Osborn, R., and T. Custer. 1978. Herons and their allies: atlas of Atlantic coast colonies: 1975 and 1976. U.S. Fish & Wildlife Service. FWS/OBS-77/08. 211 pp.

Parnell, J., and R. Soots, Jr. 1979. Atlas of colonial waterbirds of North Carolina estuaries. Univ. of North Carolina Sea Grant Publ. UNC-SG-78-10. 269 pp.

Portnoy, J. 1977. Nesting colonies of seabirds and wading birds--coastal Louisiana, Mississippi, and Alabama. U.S. Fish & Wildlife Service. FWS/OBS-77/07. 126 pp.

Sowls, A., S. Hatch, and C. Lensink. 1978. Catalog of Alaskan seabird colonies. U.S. Fish & Wildlife Service. FWS/OBS-78/78. 153 pp.

ROCKY MOUNT

78°W
36°N

MOL

76°W

This map shows the Pamlico River and Albemarle Sound area. The Pamlico River flows into the sound, and the Albemarle Sound is labeled on the left. The map includes Lake Mattamuskeet and various smaller lakes and rivers. Sampling sites are marked with dots and labeled with codes: 499001, 499002, 499003, 499004, 499005, 499006, 499007, 499008, 499009, 499010, 499011, 499012, 499013, 499014, 499015, 499016, 499017, and 499018. A scale bar indicates distances up to 30 kilometers, and a north arrow is present.

13

499 ROCKY MOUNT

499 ROCKY MOUNT, NC

499001 Beacon Island (11-04), North Carolina

LOCATION: $35^{\circ}05.9'N$; $76^{\circ}02.8'W$
 SITE DESCRIPTION: Marsh
 NESTING SUBSTRATE: Herbaceous Vegetation

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Laughing Gull	June 1	3034	Incubation	Nest Count-Ground
Forster's Tern	June 1	282	Incubation	Nest Count-Ground

499002 Big Swan Island (06-19), North Carolina

LOCATION: $35^{\circ}04.7'N$; $76^{\circ}25.0'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Sand or Shell

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Forster's Tern	May 20	Colony present; later abandoned after washout		Aerial Estimate- Fixed Wing
Common Tern	May 20			Aerial Estimate- Fixed Wing
Black Skimmer	May 20			Aerial Estimate- Fixed Wing

499007 North Rock (11-07), North Carolina

LOCATION: $35^{\circ}06.3'N$; $76^{\circ}04.3'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Dredged Material

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Brown Pelican	June 1	270	Egg Laying	Nest Count-Ground
Forster's Tern	June 1	94	Egg Laying	Nest Count-Ground
Common Tern	June 1	120	Egg Laying	Nest Count-Ground

499 ROCKY MOUNT, NC (Continued)

499009 Ocracoke Flats (11-01), North Carolina

LOCATION: $35^{\circ}04.2'N$; $76^{\circ}00.6'W$

SITE DESCRIPTION: Barrier Beach

NEST SUBSTRATE: Sand or Shell

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Gull-Billed Tern	June 1	24	Incubation	Nest Count-Ground
Common Tern	June 1	808	Incubation	Nest Count-Ground
Least Tern	August 7	14	Pairing	Ground Estimate
Black Skimmer	June 1	392	Incubation	Nest Count-Ground

499010 North Casey (12-02), North Carolina

LOCATION: $35^{\circ}04.6'N$; $76^{\circ}04.1'W$

SITE DESCRIPTION: Marsh

NEST SUBSTRATE: Driftage

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Forster's Tern	June 2	94	Egg Laying	Nest Count-Ground

499011 Unnamed (12-20), North Carolina

LOCATION: $35^{\circ}04.1'N$; $76^{\circ}04.4'W$

SITE DESCRIPTION: Marsh

NEST SUBSTRATE: Driftage

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Forster's Tern	June 2	86	Egg Laying	Nest Count-Ground

499 ROCKY MOUNT, NC (Continued)

499012 Portsmouth Island (12-01), North CarolinaLOCATION: $35^{\circ}01.8'N$; $76^{\circ}05.0'W$

SITE DESCRIPTION: Barrier Beach

NEST SUBSTRATE: Sand or Shell

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Gull-Billed Tern	June 22	62	Incubation	Nest Count-Ground
	July 7	6	Incubation	Nest Count-Ground
Common Tern	June 22	50	Egg Laying	Nest Count-Ground
	July 7	12	Incubation	Nest Count-Ground
Least Tern	June 22	283	Incubation	Nest Count-Ground
	July 7	262	Flying Young	Nest Count-Ground
Black Skimmer	June 22	116	Egg Laying	Nest Count-Ground
	July 7	124	Incubation	Nest Count-Ground

499013 Shell Point (06-13), North CarolinaLOCATION: $35^{\circ}20.0'N$; $76^{\circ}22.5'W$

SITE DESCRIPTION: Marsh

NEST SUBSTRATE: Dredged Material

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Common Tern	June 11	104	Egg Laying	Nest Count-Ground

499014 Rattan Bay (06-18), North CarolinaLOCATION: $35^{\circ}03.5'N$; $76^{\circ}28.6'W$

SITE DESCRIPTION: Marsh

NEST SUBSTRATE: Driftage

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Common Tern	July 7	97	Hatching	Ground Estimate

499 ROCKY MOUNT, NC (Continued)

499015 Hog Island Reef (15-10), North Carolina

LOCATION: $35^{\circ}00.1'N$; $76^{\circ}15.1'W$

SITE DESCRIPTION: Island-Coastal

NEST SUBSTRATE: Sand or Shell

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Gull-Billed Tern	May 27	8	Egg Laying	Nest Count-Ground
Common Tern	May 27	18	Egg Laying	Nest Count-Ground
Black Skimmer	May 27	2	Pairing	Ground Estimate

499016 Unnamed (15-09), North Carolina

LOCATION: $35^{\circ}00.1'N$; $76^{\circ}15.3'W$

SITE DESCRIPTION: Island-Coastal

NEST SUBSTRATE: Sand or Shell

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Gull-Billed Tern	May 27	20	Egg Laying	Nest Count-Ground
Common Tern	May 27	12	Egg Laying	Nest Count-Ground
Black Skimmer	May 27	2	Egg Laying	Ground Estimate

499017 Cedar Island (15-02), North Carolina

LOCATION: $35^{\circ}01.7'N$; $76^{\circ}20.4'W$

SITE DESCRIPTION: Island-Coastal

NEST SUBSTRATE: Sand or Shell

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Least Tern	May 26	2	Egg Laying	Nest Count-Ground

499 ROCKY MOUNT, NC (Continued)

499018 North Bay (15-01), North Carolina

LOCATION: $35^{\circ}02.0'N$; $76^{\circ}21.3'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Unknown

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Least Tern	May 20	Present -- no estimate made		Aerial Estimate-Fixed Wing

499019 Judith Point (06-14), North Carolina

LOCATION: $35^{\circ}20.3'N$; $76^{\circ}24.2'W$
 SITE DESCRIPTION: Marsh
 NEST SUBSTRATE: Dredged Material

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Common Tern	June 11	107	Incubation	Nest Count-Ground

499020 Judith Island Point (06-15), North Carolina

LOCATION: $35^{\circ}20.3'N$; $76^{\circ}24.4'W$
 SITE DESCRIPTION: Marsh
 NEST SUBSTRATE: Dredged Material

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Common Tern	June 11	184	Incubation	Nest Count-Ground
	July 1	165	Incubation	Nest Count-Ground

499 ROCKY MOUNT, NC (Continued)

499021 Sow Island (06-16), North CarolinaLOCATION: $35^{\circ}13.0'N$; $76^{\circ}29.2'W$

SITE DESCRIPTION: Marsh

NEST SUBSTRATE: Dredged Material

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Common Tern	May 20	30	Unknown	Aerial Estimate-Fixed Wing
	June 30	70	Egg Laying	Nest Count-Ground

499022 Shell Castle (11-06), North CarolinaLOCATION: $35^{\circ}05.9'N$; $76^{\circ}04.4'W$

SITE DESCRIPTION: Island-Coastal

NEST SUBSTRATE: Dredged Material, Driftage

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Herring Gull	June 2	16	Egg Laying	Nest Count-Ground
Forster's Tern	June 2	116	Egg Laying	Nest Count-Ground
Common Tern	June 2	82	Egg Laying	Nest Count-Ground

499023 Long Rock (11-05), North CarolinaLOCATION: $35^{\circ}05.9'N$; $76^{\circ}04.4'W$

SITE DESCRIPTION: Island-Coastal

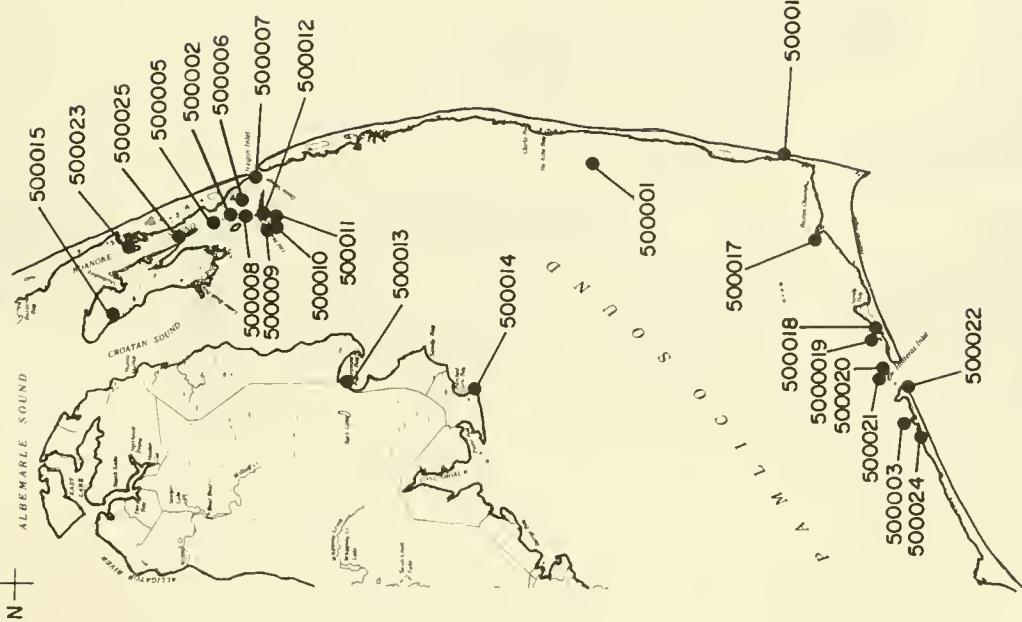
NEST SUBSTRATE: Dredged Material

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Herring Gull	June 2	22	Egg Laying	Nest Count-Ground
Common Tern	June 2	50	Egg Laying	Nest Count-Ground
Royal Tern	June 2	122	Incubation	Nest Count-Ground

MANTEO

75°W

36°N



A T L A N T I C O C E A N



SCALE IN KILOMETERS

30
25
20
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500 MANTEO, NC

500001 Gull Island (06-12), North Carolina

LOCATION: $35^{\circ}28'N$; $75^{\circ}31'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Sand or Shell

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Laughing Gull	June 10	2906	Hatching	Nest Count-Ground
Forster's Tern	June 10	112	Egg Laying	Nest Count-Ground
Royal Tern	May 13	1462	Incubation	Aerial Photo Count

500002 Herring Gull Island (03-05), North Carolina

LOCATION: $35^{\circ}48.3'N$; $75^{\circ}35.0'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Dredged Material

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Great Blk.-Backed Gull	June 9	6	Egg Laying	Nest Count-Ground
Herring Gull	June 9	462	Egg Laying	Nest Count-Ground
Laughing Gull	June 9	2008	Incubation	Nest Count-Ground

500003 Outer Green, North Carolina

LOCATION: $35^{\circ}11.1'N$; $75^{\circ}48.4'W$
 SITE DESCRIPTION: Marsh
 NEST SUBSTRATE: Driftage

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Laughing Gull	June 1	334	Incubation	Nest Count-Ground

500 MANTEO, NC (Continued)

500005 Unnamed (03-09), North Carolina

LOCATION: $35^{\circ}49.1'N$; $75^{\circ}35.4'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Dredged Material

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Herring Gull	June 9	62	Incubation	Nest Count-Ground
Laughing Gull	June 9	14	Egg Laying	Nest Count-Ground
Gull-Billed Tern	June 9	12	Egg Laying	Nest Count-Ground
Common Tern	June 9	342	Incubation	Nest Count-Ground
Least Tern	June 9	268	Egg Laying	Nest Count-Ground
Black Skimmer	June 9	46	Egg Laying	Nest Count-Ground

500006 Unnamed (03-06), North Carolina

LOCATION: $35^{\circ}48.0'N$; $75^{\circ}34.8'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Dredged Material

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Herring Gull	June 9	36	Incubation	Nest Count-Ground
Laughing Gull	June 9	96	Egg Laying	Nest Count-Ground

500007 Oregon Inlet North (05-01), North Carolina

LOCATION: $35^{\circ}47.2'N$; $75^{\circ}32.3'W$
 SITE DESCRIPTION: Barrier Beach
 NEST SUBSTRATE: Sand or Shell

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Least Tern	July 9	15	Egg Laying	Nest Count-Ground

500 MANTEO, NC (Continued)

500008 Unnamed (03-07), North Carolina

LOCATION: $35^{\circ}47.7'N$; $75^{\circ}34.9'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Dredged Material

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Common Tern	June 9	450	Egg Laying	Nest Count-Ground
Black Skimmer	June 9	42	Incubation	Nest Count-Ground

500009 Unnamed (03-12), North Carolina

LOCATION: $35^{\circ}46.7'N$; $75^{\circ}35.9'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Dredged Material

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Herring Gull	June 10	36	Incubation	Nest Count-Ground
Laughing Gull	June 10	296	Egg Laying	Nest Count-Ground
Gull-Billed Tern	June 10	20	Incubation	Nest Count-Ground
Common Tern	June 10	82	Incubation	Nest Count-Ground
Black Skimmer	June 10	322	Incubation	Nest Count-Ground

500010 Unnamed (06-07), North Carolina

LOCATION: $35^{\circ}45.8'N$; $75^{\circ}35.5'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Dredged Material

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Gull-Billed Tern	June 9	8	Egg Laying	Nest Count-Ground
Common Tern	June 9	154	Egg Laying	Nest Count-Ground
Black Skimmer	June 9	64	Egg Laying	Nest Count-Ground

500 MANTEO, NC (Continued)

500011 Unnamed (06-08), North Carolina

LOCATION: $35^{\circ}45.6'N$; $75^{\circ}35.8'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Dredged material

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Gull-Billed Tern	June 9	16	Incubation	Nest Count-Ground
Common Tern	June 9	174	Incubation	Nest Count-Ground
Royal Tern	May 13	5440	Incubation	Aerial Photo Count
Sandwich Tern	June 9	88	Incubation	Ground Estimate
Caspian Tern	June 9	18	Incubation	Nest Count-Ground
Black Skimmer	June 9	108	Incubation	Nest Count-Ground

500012 Unnamed (06-04), North Carolina

LOCATION: $35^{\circ}46.3'N$; $75^{\circ}35.1'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Dredged Material

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Least Tern	June 9	8	Pre-nesting	Adult Count-Ground

500013 Stumpy Point Bay (06-09), North Carolina

LOCATION: $35^{\circ}41.7'N$; $75^{\circ}46.1'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Dredged Material

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Gull-Billed Tern	June 11	48	Egg Laying	Nest Count-Ground
Common Tern	June 11	576	Egg Laying	Nest Count-Ground
Least Tern	June 11	20	Egg Laying	Nest Count-Ground
Black Skimmer	June 11	291	Egg Laying	Nest Count-Ground

500 MANTEO, NC (Continued)

500014 Long Shoal Point (50-03), North Carolina

LOCATION: $35^{\circ}34.8'N$; $75^{\circ}46.7'W$

SITE DESCRIPTION: Marsh

NEST SUBSTRATE: Sand or Shell

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Least Tern	June 11	67	Flying Young	Adult Count-Ground

500015 Manteo Airport (50-05), North Carolina

LOCATION: $35^{\circ}54.8'N$; $75^{\circ}42.1'W$

SITE DESCRIPTION: Marsh

NEST SUBSTRATE: Artificial-Airport

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Least Tern	May 21	42	Pairing	Adult Count-Ground

500016 Hatteras Island (08-01), North Carolina

LOCATION: $35^{\circ}17.4'N$; $75^{\circ}30.8'W$

SITE DESCRIPTION: Barrier Beach

NEST SUBSTRATE: Sand or Shell

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Least Tern	June 2	4	Incubation	Nest Count-Groung
	July 8	82	Flying Young	Nest Count-Ground

500 MANTEO, NC (Continued)

500017 King Island (06-21), North Carolina

LOCATION: $35^{\circ}16.2'N$; $75^{\circ}36.1'W$
 SITE DESCRIPTION: Marsh
 NEST SUBSTRATE: Sand or Shell

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Common Tern	June 2	24	Egg Laying	Nest Count-Ground

500018 Royal Tern Island (06-10), North Carolina

LOCATION: $35^{\circ}12.5'N$; $75^{\circ}42.6'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Dredged Material

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Laughing Gull	June 2	898	Incubation	Nest Count-Ground
Forster's Tern	June 2	130	Incubation	Nest Count-Ground
Royal Tern	May 13	1794	Incubation	Aerial Photo Count
	June 2	1700	Incubation	Nest Count-Ground

500019 Hatteras Inlet (06-11), North Carolina

LOCATION: $35^{\circ}12.7'N$; $75^{\circ}43.0'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Dredged Material

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Gull-Billed Tern	June 2	16	Egg Laying	Nest Count-Ground
	July 8	2	Egg Laying	Nest Count-Ground
Common Tern	June 2	32	Egg Laying	Nest Count-Ground
	July 8	14	Egg Laying	Nest Count-Ground
Least Tern	July 8	2	Egg Laying	Nest Count-Ground
Black Skimmer	June 2	52	Egg Laying	Nest Count-Ground

500 MANTEO, NC (Continued)

500020 Hatteras Inlet (09-04), North Carolina

LOCATION: $35^{\circ}11.9'N$; $75^{\circ}45.5'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Dredged Material

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Laughing Gull	June 8	16	Incubation	Nest Count-Ground
Gull-Billed Tern	June 8	2	Incubation	Nest Count-Ground
Forster's Tern	June 8	98	Egg Laying	Nest Count-Ground
Common Tern	June 8	552	Egg Laying	Nest Count-Ground
Black Skimmer	June 8	190	Egg Laying	Nest Count-Ground

500021 Hatteras Inlet (09-03), North Carolina

LOCATION: $35^{\circ}12.1'N$; $75^{\circ}45.6'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Dredged Material

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Laughing Gull	June 2	4	Incubation	Nest Count-Ground
Gull-Billed Tern	June 2	90	Egg Laying	Nest Count-Ground
	July 8	8	Incubation	Nest Count-Ground
Forster's Tern	June 2	78	Egg Laying	Nest Count-Ground
Common Tern	June 2	986	Egg Laying	Nest Count-Ground
	July 8	8	Incubation	Nest Count-Ground
Least Tern	June 2	562	Egg Laying	Nest Count-Ground
	July 8	88	Egg Laying	Nest Count-Ground
Black Skimmer	June 2	310	Egg Laying	Nest Count-Ground
	July 8	52	Incubation	Nest Count-Ground

500022 Ocracoke (09-02), North Carolina

LOCATION: $35^{\circ}11.1'N$; $75^{\circ}46.0'W$
 SITE DESCRIPTION: Barrier Beach
 NEST SUBSTRATE: Sand or Shell

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Least Tern	June 2	4	Pairing	Nest Count-Ground

500 MANTEO, NC (Continued)

500023 Whalebone (03-08), North Carolina

LOCATION: $35^{\circ}53.8'N$; $75^{\circ}37.2'W$

SITE DESCRIPTION: Marsh

NEST SUBSTRATE: Sand or Shell

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Least Tern	June 10	22	Incubation	Nest Count-Ground

500024 Unnamed (10-03), North Carolina

LOCATION: $35^{\circ}10.4'N$; $75^{\circ}48.8'W$

SITE DESCRIPTION: Marsh

NEST SUBSTRATE: Driftage

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Forster's Tern	June 1	262	Egg Laying	Nest Count-Ground

500025 Unnamed (03-01), North Carolina

LOCATION: $35^{\circ}51.1'N$; $75^{\circ}36.5'W$

SITE DESCRIPTION: Island-Coastal

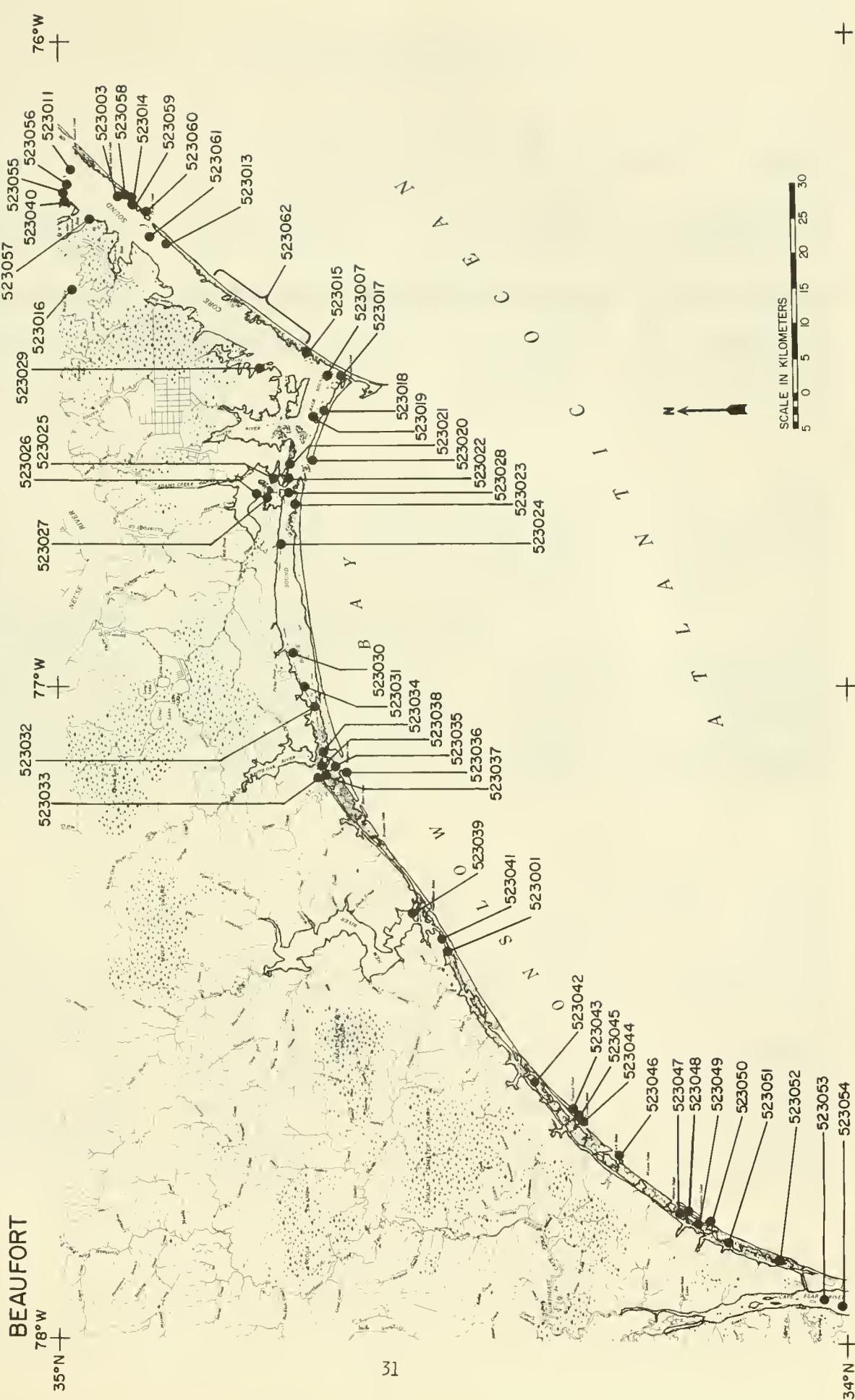
NEST SUBSTRATE: Dredged Material

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Common Tern	June 9	22	Egg Laying	Nest Count-Ground
Least Tern	June 9	22	Incubation	Nest Count-Ground

BEAUFORT

78°W

76°W



523 BEAUFORT, NC

523001 Alligator Bay (27-04), North Carolina

LOCATION: $34^{\circ}30.4'N$; $77^{\circ}24.7'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Dredged Material

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Least Tern	May 13	10	Egg Laying	Nest Count-Ground

523003 Dump Island (16-01), North Carolina

LOCATION: $34^{\circ}53.6'N$; $76^{\circ}17.2'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Dredged Material

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Herring Gull	May 26	6	Incubation	Nest Count-Ground
Laughing Gull	May 26	8478	Incubation	Sample Census
Royal Tern	May 13	6888	Incubation	Aerial Photo Count
	May 26	5450	Incubation	Nest Count-Ground
Sandwich Tern	May 26	1152	Incubation	Nest Count-Ground

523007 Morgan Island (17-01), North Carolina

LOCATION: $34^{\circ}39.6'N$; $76^{\circ}31.6'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Dredged Material

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Laughing Gull	May 19	2772	Incubation	Sample Census
Least Tern	May 19	4	Incubation	Nest Count-Ground
Royal Tern	May 13	5628	Incubation	Aerial Photo-Ground
Sandwich Tern	May 19	76	Incubation	Nest Count-Ground
Black Skimmer	May 19	6	Incubation	Nest Count-Ground

523 BEAUFORT, NC (Continued)

523011 Shell Island (14-01), North Carolina

LOCATION: $34^{\circ}59.0'N$; $76^{\circ}11.9'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Dredged Material

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Laughing Gull	May 27	1248	Incubation	Nest Count-Ground
Royal Tern	May 15	2704	Incubation	Aerial Photo Count
	May 27	1986	Hatching	Nest Count-Ground
Sandwich Tern	May 27	44	Downy Young	Nest Count-Ground

523013 Woodhouse Island (14-10), North Carolina

LOCATION: $34^{\circ}50.9'N$; $76^{\circ}15.6'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Dredged Material

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Common Tern	May 26	286	Incubation	Nest Count-Ground
	August 7	16	Egg Laying	Nest Count-Ground
Black Skimmer	May 26	28	Incubation	Nest Count-Ground

523014 Core Banks (14-11), North Carolina

LOCATION: $34^{\circ}55.3'N$; $76^{\circ}13.6'W$
 SITE DESCRIPTION: Barrier Beach
 NEST SUBSTRATE: Sand and Shell

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Least Tern	June 22	9	Incubation	Ground Estimate

523 BEAUFORT, NC (Continued)

523015 Big Deep (14-09), North Carolina

LOCATION: $34^{\circ}41.3'N$; $76^{\circ}29.6'W$
 SITE DESCRIPTION: Marsh
 NEST SUBSTRATE: Driftage

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Forster's Tern	May 25	18	Egg Laying	Nest Count-Ground

523016 Tump Island (06-20), North Carolina

LOCATION: $34^{\circ}59.0'N$; $76^{\circ}23.1'W$
 SITE DESCRIPTION: Marsh
 NEST SUBSTRATE: Sand or Shell, Driftage

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Laughing Gull	May 26	16	Incubation	Nest Count-Ground
Forster's Tern	May 26	138	Incubation	Nest Count-Ground
Black Skimmer	May 26	4	Egg Laying	Nest Count-Ground

523017 Unnamed (17-03), North Carolina

LOCATION: $34^{\circ}38.6'N$; $76^{\circ}31.2'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Dredged Material

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Gull-Billed Tern	May 19	14	Egg Laying	Nest Count-Ground
Common Tern	May 19	584	Egg Laying	Nest Count-Ground
Black Skimmer	May 19	96	Egg Laying	Nest Count-Ground

523 BEAUFORT, NC (Continued)

523018 Unnamed (18-12), North Carolina

LOCATION: $34^{\circ}40.0'N$; $76^{\circ}34.3'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Sand or Shell

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Common Tern	May 20	66	Egg Laying	Nest Count-Ground

523019 Bottle Run (18-08), North Carolina

LOCATION: $34^{\circ}40.8'N$; $76^{\circ}35.2'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Sand or Shell

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Gull-Billed Tern	May 20 July 15	18 4	Egg Laying Feathered Young	Nest Count-Ground
Common Tern	May 20 July 15	122 21	Incubation Flying Young	Nest Count-Ground Nest Count-Ground
Black Skimmer	May 20	12	Egg Laying	Nest Count-Ground

523020 Shackleford (20-05), North Carolina

LOCATION: $34^{\circ}41.0'N$; $76^{\circ}39.6'W$
 SITE DESCRIPTION: Barrier Beach
 NEST SUBSTRATE: Sand or Shell

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Common Tern	May 25	82	Pairing	Nest Count-Ground

523 BEAUFORT, NC (Continued)

523021 Unnamed (18-13), North Carolina

LOCATION: $34^{\circ}42.7'N$; $76^{\circ}39.8'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Dredged Material

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Least Tern	May 21	2	Pairing	Nest Count-Ground

523022 Unnamed (20-03), North Carolina

LOCATION: $34^{\circ}42.6'N$; $76^{\circ}40.6'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Dredged Material

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Gull-Billed Tern	May 21	18	Egg Laying	Nest Count-Ground
	July 1	32	Egg Laying	Nest Count-Ground
Common Tern	May 21	32	Egg Laying	Nest Count-Ground
	July 1	222	Egg Laying	Nest Count-Ground
Least Tern	May 21	120	Incubation	Nest Count-Ground
	July 1	2	Flying Young	Nest Count-Ground
Black Skimmer	May 21	62	Egg Laying	Nest Count-Ground
	July 1	18	Flying Young	Nest Count-Ground

523023 Unnamed (22-02), North Carolina

LOCATION: $34^{\circ}42.1'N$; $76^{\circ}43.5'W$
 SITE DESCRIPTION: Marsh
 NEST SUBSTRATE: Sand and Shell

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Common Tern	May 25	4	Incubation	Nest Count-Ground
Least Tern	May 25	70	Incubation	Nest Count-Ground
Black Skimmer	May 25	4	Incubation	Nest Count-Ground

523 BEAUFORT, NC (Continued)

523024 Unnamed (22-04), North CarolinaLOCATION: $34^{\circ}43.3'N$; $76^{\circ}47.1'W$

SITE DESCRIPTION: Island-Coastal

NEST SUBSTRATE: Dredged Material

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Gull-Billed Tern	May 25	2	Egg Laying	Nest Count-Ground
Common Tern	May 25	2	Egg Laying	Nest Count-Ground
Least Tern	May 25	64	Egg Laying	Nest Count-Ground

523025 Unnamed (20-02), North CarolinaLOCATION: $34^{\circ}43.3'N$; $76^{\circ}41.1'W$

SITE DESCRIPTION: Island-Coastal

NEST SUBSTRATE: Dredged Material

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Gull-Billed Tern	May 20	28	Incubation	Nest Count-Ground
Common Tern	May 20	6	Incubation	Nest Count-Ground

523026 Annex Island (21-03), North CarolinaLOCATION: $34^{\circ}44.0'N$; $76^{\circ}41.5'W$

SITE DESCRIPTION: Island-Coastal

NEST SUBSTRATE: Dredged Material

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Gull-Billed Tern	May 20	2	Incubation	Nest Count-Ground
Common Tern	May 20	2	Incubation	Nest Count-Ground

523 BEAUFORT, NC (Continued)

523027 Unnamed (21-01), North Carolina

LOCATION: $34^{\circ}43.5'N$; $76^{\circ}41.9'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Dredged Material

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Least Tern	May 20	140	Incubation	Nest Count-Ground
	July 1	12	Egg Laying	Nest Count-Ground

523028 Brant Island (20-06), North Carolina

LOCATION: $34^{\circ}42.4'N$; $76^{\circ}41.8'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Dredged Material

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Gull-Billed Tern	May 21	36	Incubation	Nest Count-Ground
	July 1	44	Egg Laying	Nest Count-Ground
Common Tern	May 21	40	Egg Laying	Nest Count-Ground
	July 1	230	Egg Laying	Nest Count-Ground
Least Tern	July 1	2	Flying Young	Nest Count-Ground
Black Skimmer	May 21	24	Incubation	Nest Count-Ground
	July 1	36	Egg Laying	Nest Count-Ground

523029 Lake Ellis Simon, North Carolina

LOCATION: $34^{\circ}51.0'N$; $77^{\circ}00.0'W$
 SITE DESCRIPTION: Swamp
 NEST SUBSTRATE: Trees

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Double-Cr. Cormorant	June 7	26	Feathered Young	Aerial Estimate-Fixed Wing

523 BEAUFORT, NC (Continued)

523030 Unnamed (22-08), North Carolina

LOCATION: $34^{\circ}42.5'N$; $76^{\circ}56.7'W$

SITE DESCRIPTION: Island-Coastal

NEST SUBSTRATE: Dredged Material

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Gull-Billed Tern	May 25	8	Incubation	Nest Count-Ground
Common Tern	May 25	182	Incubation	Nest Count-Ground
Least Tern	May 25	2	Incubation	Nest Count-Ground
Black Skimmer	May 25	8	Egg Laying	Nest Count-Ground

523031 Unnamed (22-26), North Carolina

LOCATION: $34^{\circ}41.3'N$; $77^{\circ}00.3'W$

SITE DESCRIPTION: Island-Coastal

NEST SUBSTRATE: Dredged Material

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Least Tern	May 25	52	Incubation	Nest Count-Ground

523032 Unnamed (22-40), North Carolina

LOCATION: $34^{\circ}40.7'N$; $77^{\circ}01.9'W$

SITE DESCRIPTION: Island-Coastal

NEST SUBSTRATE: Dredged Material

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Gull-Billed Tern	June 24	4	Incubation	Nest Count-Ground
Common Tern	June 24	6	Incubation	Nest Count-Ground
Least Tern	May 25	192	Egg Laying	Nest Count-Ground
	June 24	22	Incubation	Nest Count-Ground
Black Skimmer	June 24	4	Incubation	Nest Count-Ground

523 BEAUFORT, NC (Continued)

523033 Unnamed (23-10), North Carolina

LOCATION: $34^{\circ}40.8'N$; $77^{\circ}07.7'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Dredged Material

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Gull-Billed Tern	June 24	4	Egg Laying	Nest Count-Ground
Common Tern	June 24	6	Egg Laying	Nest Count-Ground
Least Tern	June 24	110	Incubation	Nest Count-Ground
Black Skimmer	June 24	6	Egg Laying	Nest Count-Ground

523034 Unnamed (23-11), North Carolina

LOCATION: $34^{\circ}40.5'N$; $77^{\circ}07.8'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Dredged Material

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Least Tern	June 24	12	Egg Laying	Nest Count-Ground

523035 Unnamed (22-45), North Carolina

LOCATION: $34^{\circ}40.2'N$; $77^{\circ}06.0'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Dredged Material

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Least Tern	May 25	14	Incubation	Nest Count-Ground

523 BEAUFORT, NC (Continued)

523036 Bogue Inlet (23-04), North CarolinaLOCATION: $34^{\circ}39.1'N$; $77^{\circ}07.3'W$

SITE DESCRIPTION: Marsh

NEST SUBSTRATE: Sand or Shell

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Least Tern	June 30	2	Flying Young	Nest Count-Ground

523037 Hammocks Beach (23-02), North CarolinaLOCATION: $34^{\circ}38.4'N$; $77^{\circ}07.0'W$

SITE DESCRIPTION: Barrier Beach

NEST SUBSTRATE: Sand or Shell

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Least Tern	June 30	2	Flying Young	Nest Count-Ground

523038 Unnamed (23-14), North CarolinaLOCATION: $34^{\circ}40.0'N$; $77^{\circ}05.8'W$

SITE DESCRIPTION: Island-Coastal

NEST SUBSTRATE: Dredged Material

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Common Tern	June 24	28	Incubation	Nest Count-Ground
Black Skimmer	June 24	10	Incubation	Nest Count-Ground

523 BEAUFORT, NC (Continued)

523039 Unnamed (26-07), North Carolina

LOCATION: $34^{\circ}33.4'N$; $77^{\circ}21.1'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Dredged Material

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Common Tern	June 25	14	Egg Laying	Nest Count-Ground
	July 13	12	Egg Laying	Nest Count-Ground
Least Tern	June 25	32	Egg Laying	Nest Count-Ground
	July 13	20	Egg Laying	Nest Count-Ground
Black Skimmer	June 25	6	Egg Laying	Nest Count-Ground
	July 13	10	Incubation	Nest Count-Ground

523040 Tiny Triangle (15-14), North Carolina

LOCATION: $34^{\circ}59.6'N$; $76^{\circ}14.7'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Driftage

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Forster's Tern	May 27	46	Incubation	Nest Count-Ground

523041 Alligator Bay Main (50-01), North Carolina

LOCATION: $34^{\circ}34.3'N$; $77^{\circ}23.1'W$
 SITE DESCRIPTION: Marsh
 NEST SUBSTRATE: Dredged Material

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Least Tern	May 13	2	Egg Laying	Nest Count-Ground

523 BEAUFORT, NC (Continued)

523042 Unnamed (29-25), North Carolina

LOCATION: $34^{\circ}23.9'N$; $77^{\circ}36.7'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Dredged Material

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Least Tern	May 13	10	Pairing	Nest Count-Ground

523043 Topsail South (30-01), North Carolina

LOCATION: $34^{\circ}21.0'N$; $77^{\circ}39.1'W$
 SITE DESCRIPTION: Barrier Beach
 NEST SUBSTRATE: Sand or Shell

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Least Tern	June 25	2	Egg Laying	Nest Count-Ground

523044 North Old-Topsail (31-01), North Carolina

LOCATION: $34^{\circ}20.1'N$; $77^{\circ}40.3'W$
 SITE DESCRIPTION: Barrier Beach
 NEST SUBSTRATE: Sand or Shell

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Gull-Billed Tern	June 15	6	Egg Laying	Nest Count-Ground
Common Tern	June 15	74	Incubation	Nest Count-Ground
Black Skimmer	June 15	54	Incubation	Nest Count-Ground

523 BEAUFORT, NC (Continued)

523045 Unnamed (29-36), North Carolina

LOCATION: $34^{\circ}20.5'N$; $77^{\circ}39.8'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Dredged Material

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Gull-Billed Tern	June 15	26	Incubation	Nest Count-Ground
Common Tern	June 15	386	Incubation	Nest Count-Ground
Least Tern	June 15	132	Egg Laying	Nest Count-Ground
Black Skimmer	June 15	43	Incubation	Nest Count-Ground

523046 Rich Inlet South (32-02), North Carolina

LOCATION: $34^{\circ}17.4'N$; $77^{\circ}43.1'W$
 SITE DESCRIPTION: Barrier Beach
 NEST SUBSTRATE: Sand or Shell

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Least Tern	June 15	2	Unknown	Nest Count-Ground

523047 Unnamed (36-21), North Carolina

LOCATION: $34^{\circ}12.6'N$; $77^{\circ}48.4'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Dredged Material

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Common Tern	June 7	4	Feathered Young	Nest Count-Ground

523 BEAUFORT, NC (Continued)

523048 Bird I. (36-22), North CarolinaLOCATION: $34^{\circ}12.3'N$; $77^{\circ}48.3'W$

SITE DESCRIPTION: Island-Coastal

NEST SUBSTRATE: Dredged Material

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Gull-Billed Tern	June 7	40	Egg Laying	Nest Count-Ground
Common Tern	June 7	76	Egg Laying	Nest Count-Ground
Black Skimmer	June 7	30	Egg Laying	Nest Count-Ground

523049 Shinn Creek (36-03), North CarolinaLOCATION: $34^{\circ}11.5'N$; $77^{\circ}49.5'W$

SITE DESCRIPTION: Island-Coastal

NEST SUBSTRATE: Dredged Material

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Least Tern	June 25	6	Egg Laying	Nest Count-Ground
	July 20	2	Flying Young	Nest Count-Ground

523050 Masonboro Island (35-02), North CarolinaLOCATION: $34^{\circ}10.8'N$; $77^{\circ}49.0'W$

SITE DESCRIPTION: Barrier Beach

NEST SUBSTRATE: Sand and Shell

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Gull-Billed Tern	June 7	10	Egg Laying	Nest Count-Ground
Common Tern	July 20	4	Incubation	Nest Count-Ground
Least Tern	June 7	26	Egg Laying	Nest Count-Ground
Black Skimmer	June 7	12	Egg Laying	Nest Count-Ground
	July 20	40	Incubation	Nest Count-Ground

523 BEAUFORT, NC (Continued)

523051 Unnamed (36-14), North Carolina

LOCATION: $34^{\circ}09.3'N$; $77^{\circ}51.2'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Dredged Material

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Least Tern	July 6	30	Egg Laying	Nest Count-Ground

523052 Unnamed (37-18), North Carolina

LOCATION: $34^{\circ}04.5'N$; $77^{\circ}53.0'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Dredged Material

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Black Skimmer	June 25	2	Egg Laying	Nest Count-Ground

523053 Unnamed (39-26), North Carolina

LOCATION: $34^{\circ}01.7'N$; $77^{\circ}56.1'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Dredged Material

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Gull-Billed Tern	June 16	130	Egg Laying	Nest Count-Ground
Common Tern	June 16	2	Egg Laying	Nest Count-Ground
Black Skimmer	June 16	2	Egg Laying	Nest Count-Ground

523 BEAUFORT, NC (Continued)

523054 Laughing Gull (39-28), North CarolinaLOCATION: $34^{\circ}00.4'N$; $77^{\circ}56.9'W$

SITE DESCRIPTION: Island-Coastal

NEST SUBSTRATE: Dredged Material

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Laughing Gull	June 16	1322	Incubation	Nest Count-Ground
Common Tern	May 11	82	Pairing	Nest Count-Ground

523055 Chainshot (15-11), North CarolinaLOCATION: $34^{\circ}59.3'N$; $76^{\circ}14.1'W$

SITE DESCRIPTION: Island-Coastal

NEST SUBSTRATE: Driftage

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Laughing Gull	May 27	962	Incubation	Nest Count-Ground

523056 Harbor (14-03), North CarolinaLOCATION: $34^{\circ}59.3'N$; $76^{\circ}13.3'W$

SITE DESCRIPTION: Island-Coastal

NEST SUBSTRATE: Sand or Shell

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Laughing Gull	May 27	214	Incubation	Nest Count-Ground

523 BEAUFORT, NC (Continued)

523057 Cedar Point (50-02), North CarolinaLOCATION: $34^{\circ}59.5'N$; $76^{\circ}18.4'W$

SITE DESCRIPTION: Marsh

NEST SUBSTRATE: Dredged Material

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Least Tern	May 27	10	Incubation	Nest Count-Ground

523058 Dump South (16-02), North CarolinaLOCATION: $34^{\circ}53.3'N$; $76^{\circ}17.2'W$

SITE DESCRIPTION: Island-Coastal

NEST SUBSTRATE: Driftage

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Laughing Gull	May 26	52	Incubation	Nest Count-Ground
Forster's Tern	May 26	36	Incubation	Nest Count-Ground

523059 Unnamed (16-04), North CarolinaLOCATION: $34^{\circ}52.7'N$; $76^{\circ}17.5'W$

SITE DESCRIPTION: Island-Coastal

NEST SUBSTRATE: Driftage

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Forster's Tern	May 26	20	Incubation	Nest Count-Ground

523 BEAUFORT, NC (Continued)

523060 Core Banks (14-05), North Carolina

LOCATION: $34^{\circ}51.4'N$; $76^{\circ}18.5'W$
 SITE DESCRIPTION: Barrier Beach
 NEST SUBSTRATE: Sand or Shell

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Least Tern	May 26	6	Incubation	Nest Count-Ground

523061 New Dump (14-04), North Carolina

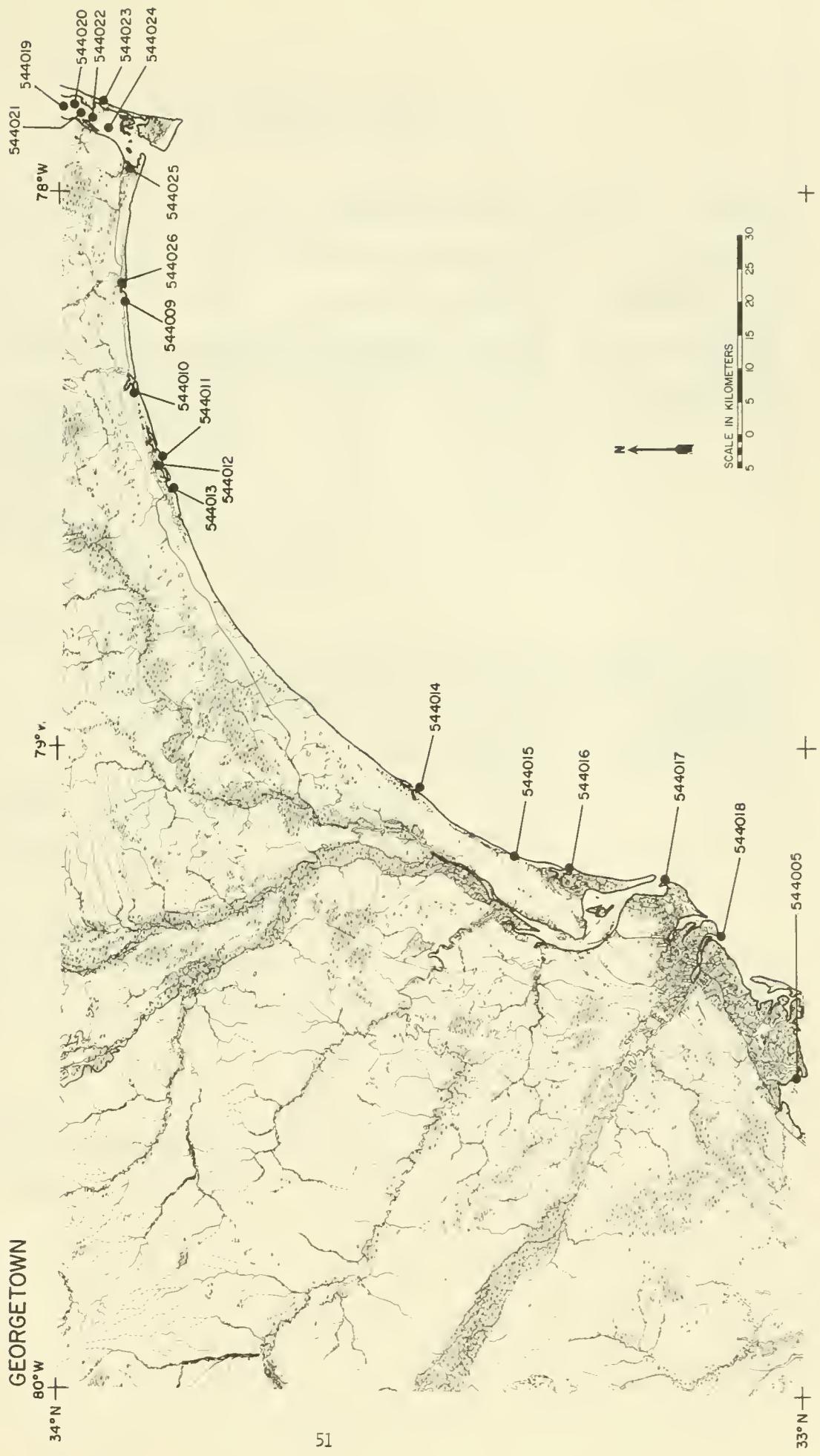
LOCATION: $34^{\circ}51.8'N$; $76^{\circ}20.1'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Dredged Material

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Gull-Billed Tern	May 26	58	Incubation	Nest Count-Ground
	July 9	42	Egg Laying	Nest Count-Ground
Common Tern	May 26	170	Incubation	Nest Count-Ground
	July 9	496	Egg Laying	Nest Count-Ground
Least Tern	May 26	6	Egg Laying	Nest Count-Ground
Black Skimmer	May 26	148	Incubation	Nest Count-Ground
	July 9	360	Egg Laying	Nest Count-Ground

523062 Core Banks (14-08), North Carolina

LOCATION: $34^{\circ}42.9'N$; $76^{\circ}27.1'W$
 SITE DESCRIPTION: Barrier Beach
 NEST SUBSTRATE: Dredged Material

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Least Tern	June 23	118	Pairing	Ground Estimate



544 GEORGETOWN, SC

544005 White Banks, South Carolina

LOCATION: $33^{\circ}01.0'N$; $79^{\circ}30.4'W$
 SITE DESCRIPTION: Marsh
 NEST SUBSTRATE: Herbaceous Vegetation

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Laughing Gull	June 1	2940	Incubation	Nest Count-Ground
	July 14	900	Feathered Young	Ground Estimate
Gull-Billed Tern	June 1	18	Pairing	Nest Count-Ground
	July 14	10	Pairing	Ground Estimate
Black Skimmer	June 1	150	Pairing	Nest Count-Ground
	July 14	16	Incubation	Ground Estimate

544009 Unnamed (50-04), North Carolina

LOCATION: $33^{\circ}55.1'N$; $78^{\circ}14.6'W$
 SITE DESCRIPTION: Marsh
 NEST SUBSTRATE: Dredged Material

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Least Tern	May 17	2	Egg Laying	Nest Count-Ground

544010 Unnamed (45-03), North Carolina

LOCATION: $33^{\circ}53.9'N$; $78^{\circ}25.2'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Sand or Shell

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Least Tern	May 12	6	Prenesting	Adult Count-Ground

544 GEORGETOWN, SC (Continued)

544011 Sunset Beach (48-06), North Carolina

LOCATION: $33^{\circ}52.1'N$; $78^{\circ}30.3'W$
 SITE DESCRIPTION: Barrier Beach
 NEST SUBSTRATE: Sand or Shell

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Least Tern	May 12	246	Egg Laying	Nest Count-Ground

544012 Unnamed (48-07), North Carolina

LOCATION: $33^{\circ}52.7'N$; $78^{\circ}29.1'W$
 SITE DESCRIPTION: Marsh
 NEST SUBSTRATE: Dredged Material

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Least Tern	May 12	10	Egg Laying	Nest Count-Ground

544013 Waiter Island, South Carolina

LOCATION: $33^{\circ}51.2'N$; $78^{\circ}33.2'W$
 SITE DESCRIPTION: Barrier Beach
 NEST SUBSTRATE: Dredged Material

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Least Tern	July 1	18	Incubation	Nest Count-Ground

544 GEORGETOWN, SC (Continued)

544014 Magnolia Beach, South Carolina

LOCATION: $33^{\circ}32.0'N$; $79^{\circ}02.0'W$
 SITE DESCRIPTION: Barrier Beach
 NEST SUBSTRATE: Sand or Shell

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Gull-Billed Tern	May 30	2	Incubation	Nest Count-Ground
Least Tern	May 16	22	Egg Laying	Nest Count-Ground
	May 30	8	Incubation	Nest Count-Ground

544015 DuBourdieu Beach, South Carolina

LOCATION: $33^{\circ}24.0'N$; $79^{\circ}08.3'W$
 SITE DESCRIPTION: Barrier Beach
 NEST SUBSTRATE: Sand and Shell

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Least Tern	May 17	38	Incubation	Nest Count-Ground
	May 30	3	Prenesting	Adult Count-Ground

544016 North Island, South Carolina

LOCATION: $33^{\circ}19.5'N$; $79^{\circ}10.0'W$
 SITE DESCRIPTION: Barrier Beach
 NEST SUBSTRATE: Sand and Shell

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Least Tern	June 10	6	Renesting	Adult Count-Ground
Black Skimmer	June 10	45	Pairing	Adult Count-Ground

544 GEORGETOWN, SC (Continued)

544017 Sand Bank, South Carolina

LOCATION: $33^{\circ}11.4'N$; $79^{\circ}10.3'W$
 SITE DESCRIPTION: Barrier Beach
 NEST SUBSTRATE: Sand or Shell

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Least Tern	June 28	12	Renesting	Nest Count-Ground
Black Skimmer	June 28	94	Egg Laying	Nest Count-Ground

544018 Cedar Island, South Carolina

LOCATION: $33^{\circ}06.5'N$; $79^{\circ}17.3'W$
 SITE DESCRIPTION: Barrier Beach
 NEST SUBSTRATE: Sand or Shell

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Least Tern	June 28	3	Renesting	Nest Count-Ground

544019 Unnamed (39-29), North Carolina

LOCATION: $33^{\circ}59.9'N$; $77^{\circ}56.2'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Dredged Material

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Laughing Gull	June 16	8	Incubation	Nest Count-Ground
Gull-Billed Tern	May 12	60	Prenesting	Nest Count-Ground

544 GEORGETOWN, SC (Continued)

544020 Unnamed (39-30), North Carolina

LOCATION: $33^{\circ}59.6'N$; $77^{\circ}56.3'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Dredged Material

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Laughing Gull	May 12	2	Prenesting	Nest Count-Ground
	June 16	22	Incubation	Nest Count-Ground

544021 Royal Tern Island (39-32), North Carolina

LOCATION: $33^{\circ}58.4'N$; $77^{\circ}56.6'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Dredged Material

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Laughing Gull	June 16	6	Incubation	Nest Count-Ground
	Royal Tern	May 11	8800	Incubation
May 13		8060	Incubation	Aerial Photo Count
Sandwich Tern	June 16	4	Unknown	Nest Count-Ground

544022 Unnamed (39-33), North Carolina

LOCATION: $33^{\circ}57.9'N$; $77^{\circ}57.5'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Dredged Material

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Gull-Billed Tern	May 11	4	Egg Laying	Nest Count-Ground
	June 16	48	Egg Laying	Nest Count-Ground
Common Tern	June 16	4	Egg Laying	Nest Count-Ground
	Least Tern	May 11	6	Egg Laying
June 16		58	Egg Laying	Nest Count-Ground

544 GEORGETOWN, SC (Continued)

544023 Carolina Beach (39-49), North Carolina

LOCATION: $33^{\circ}56.1'N$; $77^{\circ}56.1'W$
 SITE DESCRIPTION: Barrier Beach
 NEST SUBSTRATE: Sand and Shell

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Least Tern	May 21	210	Incubation	Nest Count-Ground
Black Skimmer	July 20	274	Incubation	Nest Count-Ground

544024 Gull-Billed Tern (39-37), North Carolina

LOCATION: $33^{\circ}56.1'N$; $77^{\circ}58.7'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Dredged Material

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Gull-Billed Tern	May 11	40	Incubation	Nest Count-Ground
Common Tern	May 11	16	Incubation	Nest Count-Ground

544025 Unnamed (40-01), North Carolina

LOCATION: $33^{\circ}54.8'N$; $78^{\circ}01.9'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Dredged Material

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Least Tern	May 6	16	Egg Laying	Nest Count-Ground
	May 12	46	Egg Laying	Nest Count-Ground

544 GEORGETOWN, SC (Continued)

544026 Monks Island (43-09), North Carolina

LOCATION: $33^{\circ}54.7'N$; $78^{\circ}22.7'W$

SITE DESCRIPTION: Island-Coastal

NEST SUBSTRATE: Dredged Material

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Common Tern	June 29	6	Egg Laying	Nest Count-Ground
Least Tern	May 12	86	Egg Laying	Nest Count-Ground
	June 29	108	Egg Laying	Nest Count-Ground
Black Skimmer	June 29	12	Egg Laying	Nest Count-Ground

563 SAVANNAH, GA

563006 Deveaux Bank, South Carolina

LOCATION: $32^{\circ}32.6'N$; $80^{\circ}10.2'W$
 SITE DESCRIPTION: Marsh
 NEST SUBSTRATE: Sand or Shell

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Brown Pelican	July 11	2944	Feathered Young	Ground Estimate
Laughing Gull	June 4	2300	Incubation	Nest Count-Ground
	July 11	5000	Downy Young	Ground Estimate
Least Tern	June 4	10	Incubation	Nest Count-Ground
Royal Tern	June 4	12000	Incubation	Nest Count-Ground
	July 11	6400	Incubation	Ground Estimate
Sandwich Tern	June 4	300	Pairing	Nest Count-Ground
	July 11	20	Unknown	Ground Estimate
Black Skimmer	June 4	300	Pairing	Nest Count-Ground
	July 11	375	Renesting	Ground Estimate

563012 John's Island Airport, South Carolina

LOCATION: $32^{\circ}42.2'N$; $80^{\circ}00.5'W$
 SITE DESCRIPTION: Marsh
 NEST SUBSTRATE: Artificial-Airport

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Least Tern	June 14	10	Egg Laying	Nest Count-Ground

563013 Kiawah Island, South Carolina

LOCATION: $32^{\circ}35.0'N$; $80^{\circ}08.4'W$
 SITE DESCRIPTION: Barrier Beach
 NEST SUBSTRATE: Sand or Shell

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Least Tern	June 4	86	Incubation	Nest Count-Ground
	June 24	118	Incubation	Nest Count-Ground
	June 30	15	Renesting	Nest Count-Ground

563 SAVANNAH, GA (Continued)

563014 Botany Bay, South Carolina

LOCATION: $32^{\circ}32.0'N$; $80^{\circ}14.7'W$
 SITE DESCRIPTION: Barrier Beach
 NEST SUBSTRATE: Sand or Shell

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Least Tern	July 5	60	Incubation	Ground Estimate

563015 Edinesville Beach, South Carolina

LOCATION: $32^{\circ}31.6'N$; $80^{\circ}15.5'W$
 SITE DESCRIPTION: Barrier Beach
 NEST SUBSTRATE: Sand or Shell

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Least Tern	July 5	6	Renesting	Adult Count-Ground

563016 Hunting Island, South Carolina

LOCATION: $32^{\circ}23.5'N$; $80^{\circ}25.8'W$
 SITE DESCRIPTION: Barrier Beach
 NEST SUBSTRATE: Sand or Shell

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Least Tern	June 13	18	Incubation	Nest Count-Ground
	June 27	2	Egg Laying	Nest Count-Ground

563 SAVANNAH, GA (Continued)

563017 Savannah River National Wildlife Refuge, South Carolina

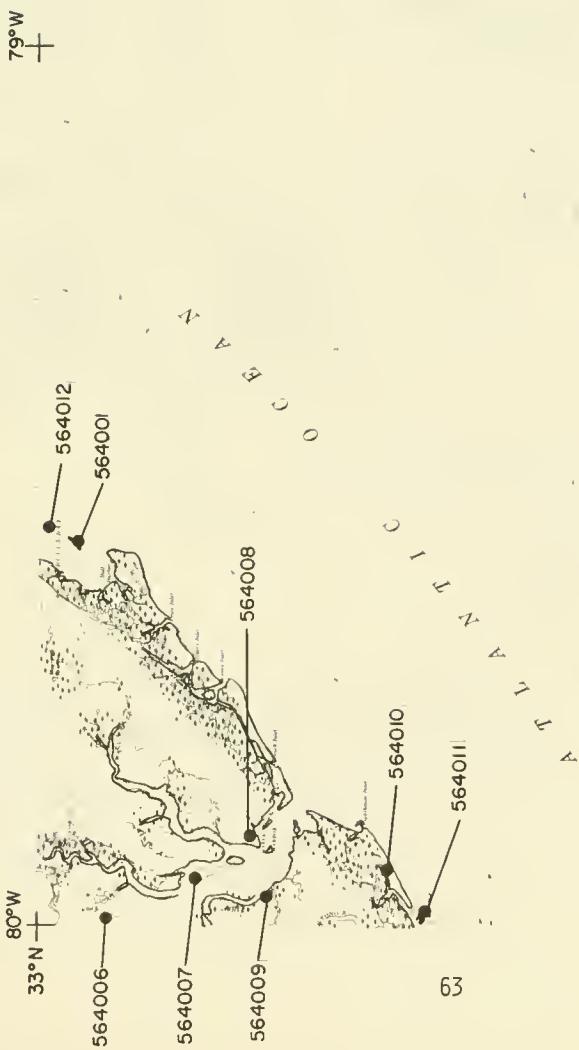
LOCATION: $32^{\circ}08.4'N$; $81^{\circ}07.1'W$

SITE DESCRIPTION: Marsh

NEST SUBSTRATE: Dredged Material

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Gull-Billed Tern	July 16	12	Flying Young	Ground Estimate
Least Tern	July 16	178	Downy Young	Ground Estimate
Black Skimmer	July 16	4	Incubation	Ground Estimate

JAMES ISLAND



79°W

80°W

+

+

33°N

32°N

63

+

+

SCALE IN KILOMETERS

5 0 5 10 15 20 25 30

← N

564 JAMES ISLAND, SC

564001 Bird Island, South Carolina

LOCATION: $32^{\circ}57.8'N$; $79^{\circ}33.8'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Herbaceous Vegetation, Sand or Shell

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Laughing Gull	May 7	160	Incubation	Nest Count-Ground
	July 14	3000	Downy Young	Ground Estimate
Gull-Billed Tern	May 7	200	Incubation	Nest Count-Ground
	July 14	64	Downy Young	Ground Estimate
Least Tern	May 7	500	Incubation	Nest Count-Ground
Royal Tern	May 7	10400	Incubation	Nest Count-Ground
	July 14	3400	Downy Young	Ground Estimate
Black Skimmer	July 14	468	Downy Young	Ground Estimate

564006 Northwood Mall, South Carolina

LOCATION: $32^{\circ}56.0'N$; $80^{\circ}02.6'W$
 SITE DESCRIPTION: Urban
 NEST SUBSTRATE: Artificial -- roof top

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Least Tern	June 9	56	Egg Laying	Adult Count-Ground
	June 14	12	Incubation	Nest Count-Ground
	June 21	26	Hatching	Nest Count-Ground
	June 25	4	Hatching	Nest Count-Ground

564007 Charleston Naval Base, South Carolina

LOCATION: $32^{\circ}51.3'N$; $79^{\circ}57.7'W$
 SITE DESCRIPTION: Urban
 NEST SUBSTRATE: Artificial -- roof top

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Least Tern	July 12	48	Downy Young	Nest Count-Ground

564 JAMES ISLAND, SC (Continued)

564008 Hog Island, South Carolina

LOCATION: $32^{\circ}47.6'N$; $79^{\circ}54.2'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Dredged Material

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Least Tern	May 25	8	Egg Laying	Nest Count-Ground
	May 28	22	Egg Laying	Nest Count-Ground
	May 30	6	Renesting	Nest Count-Ground

564009 Riverview Inn, South Carolina

LOCATION: $32^{\circ}46.9'N$; $79^{\circ}58.2'W$
 SITE DESCRIPTION: Marsh
 NEST SUBSTRATE: Dredged Material

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Least Tern	June 13	58	Egg Laying	Nest Count-Ground

564010 Folly River Road, South Carolina

LOCATION: $32^{\circ}39.6'N$; $79^{\circ}56.6'W$
 SITE DESCRIPTION: Marsh
 NEST SUBSTRATE: Dredged Material

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Least Tern	June 13	3	Prenesting	Adult Count-Ground

564 JAMES ISLAND, SC (Continued)

564011 Bird Key, South CarolinaLOCATION: $32^{\circ}37.7'N$; $79^{\circ}59.2'W$

SITE DESCRIPTION: Island-Coastal

NEST SUBSTRATE: Sand or Shell

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Black Skimmer	May 27	300	Pairing	Aerial Estimate-Fixed Wing

564012 White Island, South CarolinaLOCATION: $32^{\circ}59.5'N$; $79^{\circ}32.8'W$

SITE DESCRIPTION: Island-Coastal

NEST SUBSTRATE: Sand, Herbaceous Vegetation

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Brown Pelican	May 7	3010	Incubation	Nest Count-Ground

581 BRUNSWICK, GA

581025 Pelican Spit, Georgia

LOCATION: $31^{\circ}12.5'N$; $81^{\circ}17.7'W$

SITE DESCRIPTION: Island-Coastal

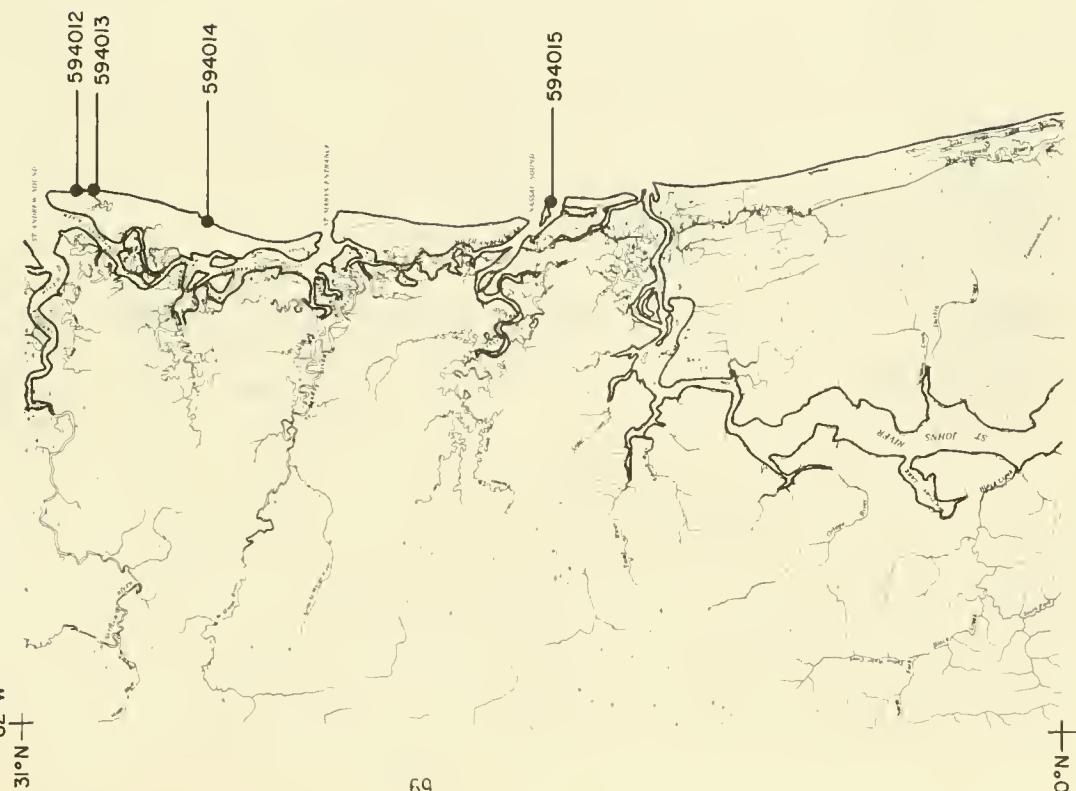
NEST SUBSTRATE: Sand or Shell

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Black Skimmer	July 9	400	Incubation	Aerial Estimate-Fixed Wing

JACKSONVILLE

81°W

31°N



594 JACKSONVILLE, FL

594012 Little Cumberland Island, Georgia

LOCATION: $30^{\circ}56.8'N$; $81^{\circ}24.4'W$
 SITE DESCRIPTION: Barrier Beach
 NEST SUBSTRATE: Sand or Shell

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Black Skimmer	July 9	60	Unknown	Aerial Estimate-Fixed Wing

594013 Long Point, Georgia

LOCATION: $30^{\circ}56.3'N$; $81^{\circ}24.2'W$
 SITE DESCRIPTION: Barrier Beach
 NEST SUBSTRATE: Sand or Shell

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Least Tern	May 31	30	Pairing	Aerial Estimate-Fixed Wing
Black Skimmer	May 31	300	Pairing	Aerial Estimate-Fixed Wing

594014 Willow Pond Beach, Georgia

LOCATION: $30^{\circ}49.4'N$; $81^{\circ}26.5'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Sand or Shell

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Least tern	May 4	30	Prenesting	Aerial Estimate-Fixed Wing

594 JACKSONVILLE, FL (Continued)

594015 Bird Islands, Georgia

LOCATION: $30^{\circ}29.8'N$; $81^{\circ}25.9'W$

SITE DESCRIPTION: Island-Coastal

NEST SUBSTRATE: Sand or Shell

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Gull-Billed Tern	June 8	182	Hatching	Nest Count-Ground
	July 25	105	Renesting	Nest Count-Ground
Least Tern	June 8	36	Egg Laying	Nest Count-Ground
	July 25	166	Incubation	Nest Count-Ground
Royal Tern	June 8	3060	Incubation	Nest Count-Ground
	July 25	4000	Downy Young	Nest Count-Ground
Sandwich Tern	June 8	40	Incubation	Nest Count-Ground
	July 25	40	Downy Young	Nest Count-Ground
Black Skimmer	July 25	1907	Incubation	Nest Count-Ground

DAYTONA BEACH

82°W
30°N +

606003

81°W
+



SCALE IN KILOMETERS

0 5 10 15 20 25 30

A T L A N T I C

O C E A N



606 DAYTONA BEACH, FL

606001 New Smyrna Beach, FloridaLOCATION: $29^{\circ}1.7'N$; $80^{\circ}55.2'W$

SITE DESCRIPTION: Urban

NEST SUBSTRATE: Trees (Mangrove)

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Brown Pelican	May 14	70	Downy Young	Aerial Estimate-Fixed Wing
	June 8	70	Downy Young	Unknown
	June 17	30	Downy Young	Unknown
	July 22	20	Flying Young	Unknown

606002 Port Orange, FloridaLOCATION: $29^{\circ}08.7'N$; $80^{\circ}58.5'W$

SITE DESCRIPTION: Island-Coastal

NEST SUBSTRATE: Trees (Mangrove)

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Brown Pelican	April 26	650	Flying Young	Unknown
	June 17	700	Flying Young	Unknown
	July 21	160	Flying Young	Unknown
Double-Cr. Cormorant	June 8	400	Feathered Young	Unknown
	July 21	60	Flying Young	Unknown

606003 St. Marks Pond Swamp, FloridaLOCATION: $29^{\circ}59.4'N$; $81^{\circ}23.7'W$

SITE DESCRIPTION: Swamp

NEST SUBSTRATE: Shrub

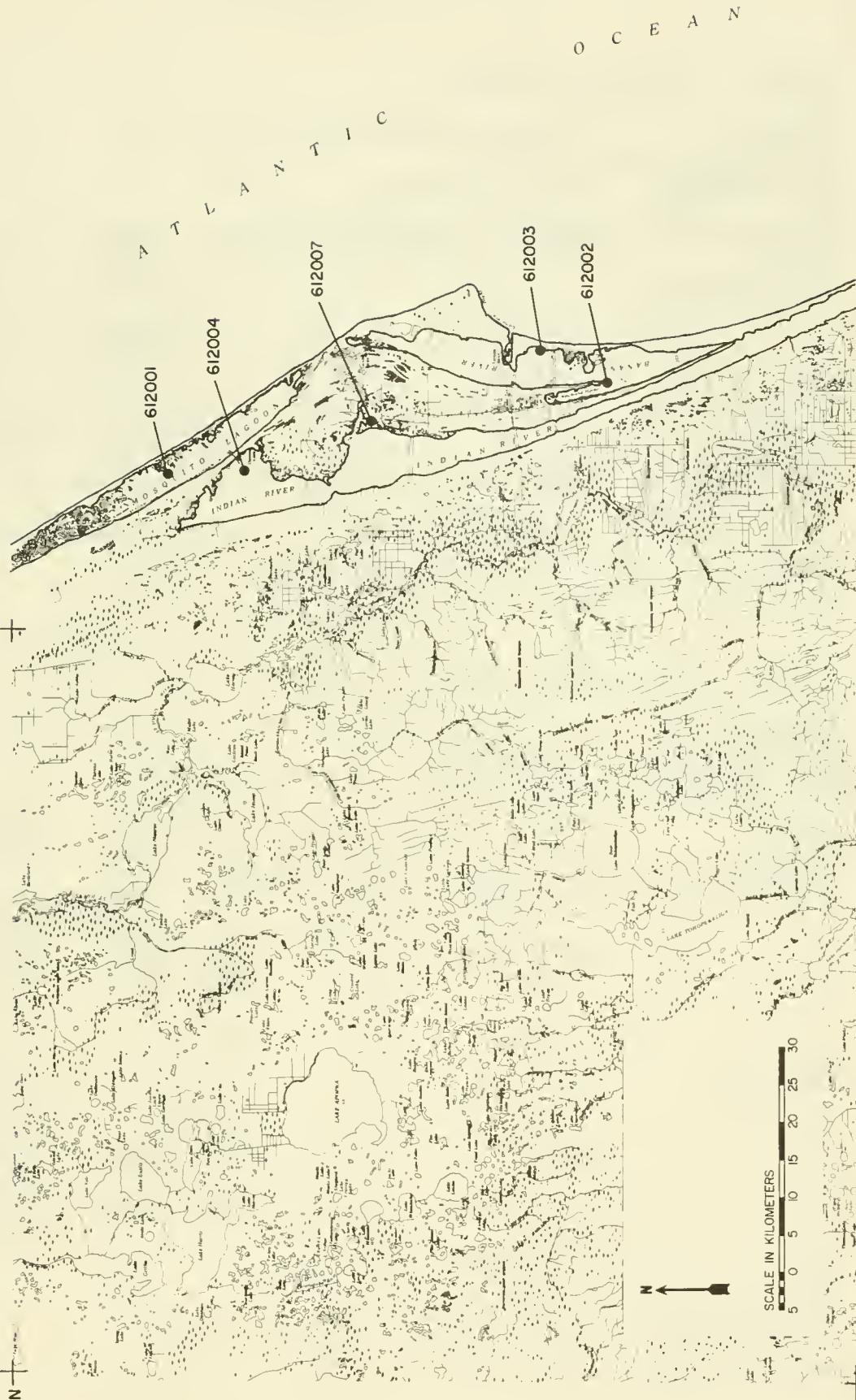
<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Double-Cr. Cormorant	April 27	100	Downy Young	Aerial Estimate-Fixed Wing

ORLANDO

82°W

81°W

29°N



612 ORLANDO, FL

612001 Bird Island, Florida

LOCATION: $28^{\circ}48.8'N$; $80^{\circ}46.4'W$
 SITE DESCRIPTION: Marsh
 NEST SUBSTRATE: Trees (Mangrove)

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Brown Pelican	April 26	700	Feathered Young	Aerial Estimate-Fixed Wing
	May 24	674	Feathered Young	Unknown
	June 17	700	Feathered Young	Aerial Estimate-Fixed Wing
	July 7	70	Feathered Young	Nest Count-Ground
Double-Cr. Cormorant	May 24	350	Downy Young	Unknown
	June 17	500	Feathered Young	Aerial Estimate-Fixed Wing
	July 7	80	Feathered Young	Nest Count-Ground

612002 George and Brady Island, Florida

LOCATION: $28^{\circ}17.8'N$; $80^{\circ}39.8'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Trees (Mangrove)

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Brown Pelican	April 26	500	Downy Young	Aerial Estimate-Fixed Wing
	June 7	450	Downy Young	Unknown
	June 17	450	Downy Young	Aerial Estimate-Fixed Wing
	July 6	124	Renesting	Aerial Estimate-Fixed Wing
Double-Cr. Cormorant	April 26	600	Incubation	Aerial Estimate-Fixed Wing
	June 7	900	Hatching	Unknown
	June 17	250	Downy Young	Aerial Estimate-Fixed Wing
	July 6	130	Flying Young	Aerial Estimate-Fixed Wing

612 ORLANDO, FL (Continued)

612003 Hall Island, Florida

LOCATION: $28^{\circ} 22.4'N$; $80^{\circ} 36.8'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Trees (Mangrove)

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Brown Pelican	April 26	250	Unknown	Aerial Estimate-Fixed Wing
	June 7	500	Flying Young	Unknown
	June 17	300	Flying Young	Aerial Estimate-Fixed Wing
Double-Cr. Cormorant	July 6	60	Flying Young	Nest Count-Ground
	April 26	300	Unknown	Aerial Estimate-Fixed Wing
	June 7	600	Feathered Young	Unknown
	June 17	1450	Unknown	Aerial Estimate-Fixed Wing
	July 6	60	Flying Young	Nest Count-Ground

612004 Haulover Canal, Florida

LOCATION: $28^{\circ} 43.6'N$; $80^{\circ} 16.2'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Shrubs

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Double-Cr. Cormorant	June 17	60	Hatching	Unknown
	July 6	52	Flying Young	Unknown

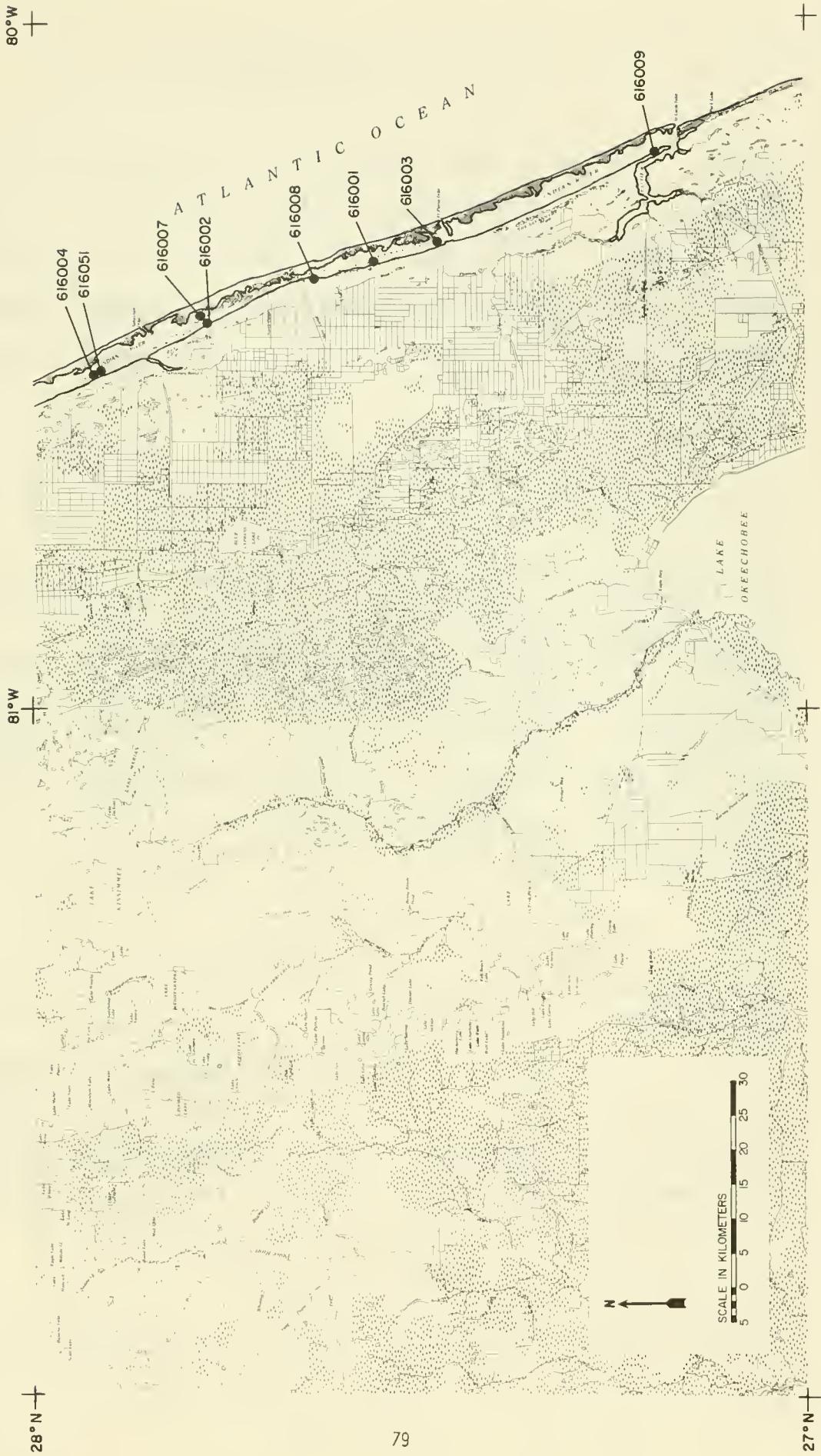
612007 Moore Creek, Florida

LOCATION: $28^{\circ} 34.8'N$; $80^{\circ} 42.5'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Trees (Mangrove)

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Double-Cr. Cormorant	May 11	126	Downy Young	Aerial Estimate-Fixed Wing
	July 6	860	Feathered Young	Nest Count-Ground

FT. PIERCE

28°N +
80°W



616 FORT PIERCE, FL

616001 County Line Spoil, Florida

LOCATION: $27^{\circ}33.2'N$; $80^{\circ}21.0'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Trees (Mangrove)

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Double-Cr. Cormorant	May 29	10	Downy Young	Nest Count-Ground

616002 Duck Point Spoil, Florida

LOCATION: $27^{\circ}46.4'N$; $80^{\circ}26.1'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Dredged Material

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Least Tern	May 20	138	Incubation	Nest Count-Ground
Double-Cr. Cormorant	June 8	50	Downy Young	Aerial Estimate- Fixed Wing
	July 13	120	Downy Young	Nest Count-Ground

616003 Fort Pierce Spoil, Florida

LOCATION: $27^{\circ}28.6'N$; $80^{\circ}19.4'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Trees (Mangrove)

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Brown Pelican	May 27	294	Feathered Young	Nest Count-Ground
	July 17	150	Flying Young	Unknown
Double-Cr. Cormorant	May 27	190	Feathered Young	Nest Count-Ground
	July 17	100	Feathered Young	Unknown

616 FORT PIERCE, FL (Continued)

616004 Grant Farm Island (SW), Florida

LOCATION: $27^{\circ}55.4'N$; $80^{\circ}30.9'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Trees (Mangrove)

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Double-Cr. Cormorant	May 20	50	Hatching	Nest Count-Ground
	July 13	50	Feathered Young	Nest Count-Ground

616007 Pelican Island, Florida

LOCATION: $27^{\circ}47.8'N$; $80^{\circ}26.0'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Trees (Mangrove)

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Brown Pelican	May 20	600	Feathered Young	Nest Count-Ground
	June 8	300	Feathered Young	Aerial Estimate-Fixed Wing
Double-Cr. Cormorant	July 13	50	Feathered Young	Nest Count-Ground
	May 20	250	Downy Young	Nest Count-Ground
	June 8	100	Feathered Young	Aerial Estimate-Fixed Wing
	July 13	4	Flying Young	Nest Count-Ground

616008 Riomar Spoil, Florida

LOCATION: $27^{\circ}38.3'N$; $80^{\circ}22.2'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Trees (Mangrove)

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Brown Pelican	May 14	626	Feathered Young	Nest Count-Ground
	June 8	400	Feathered Young	Aerial Estimate-Fixed Wing
	July 2	120	Feathered Young	Aerial Estimate-Fixed Wing
Double-Cr. Cormorant	May 14	50	Downy Young	Nest Count-Ground
	July 2	50	Feathered Young	Aerial Estimate-Fixed Wing

616 FORT PIERCE, FL (Continued)

616009 Sewall Point East, FloridaLOCATION: $27^{\circ}11.4'N$; $80^{\circ}11.3'W$

SITE DESCRIPTION: Island-Coastal

NEST SUBSTRATE: Trees (Mangrove)

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Brown Pelican	June 7	200	Feathered Young	Nest Count-Ground
	June 8	300	Feathered Young	Aerial Estimate-Fixed Wing
Double-Cr. Cormorant	June 7	100	Downy Young	Nest Count-Ground
	June 8	150	Downy Young	Aerial Estimate-Fixed Wing

616051 Micco, FloridaLOCATION: $27^{\circ}55.1'N$; $80^{\circ}30.9'W$

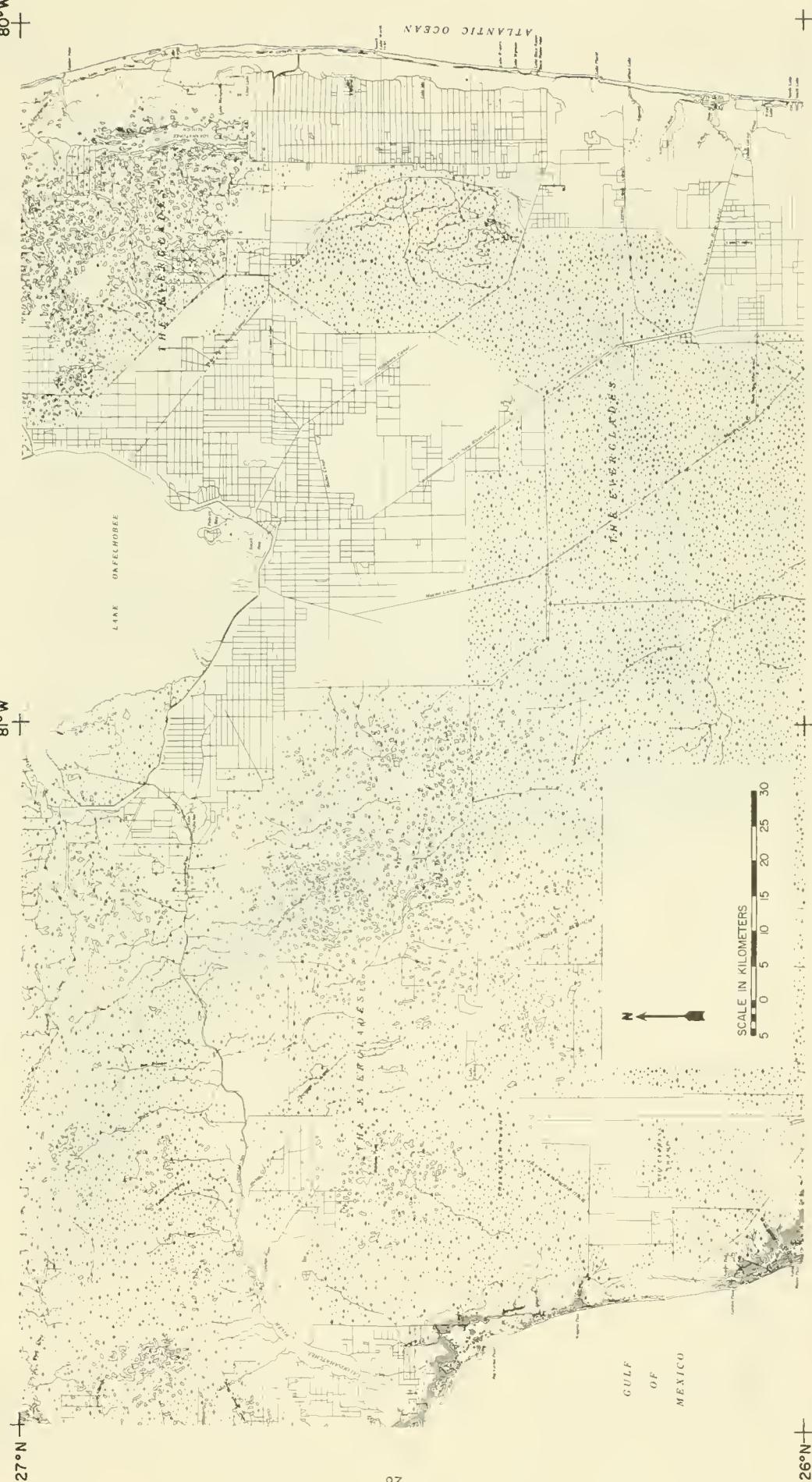
SITE DESCRIPTION: Island-Coastal

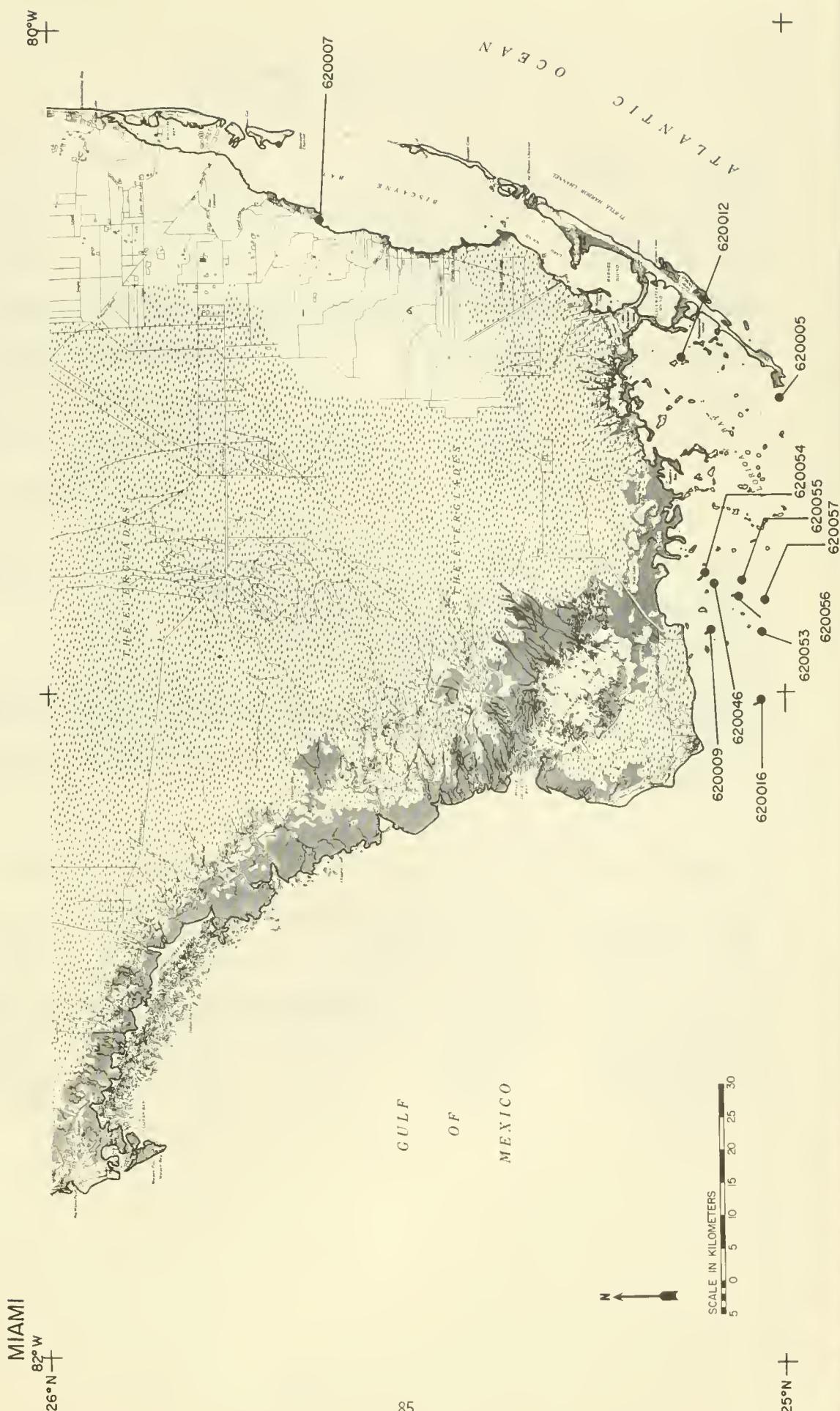
NEST SUBSTRATE: Dredged Material

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Least Tern	May 20	56	Incubation	Nest Count-Ground
Black Skimmer	May 20	2	Pairing	Adult Count-Ground

WEST PALM BEACH

NO SEABIRD COLONIES





620 MIAMI, FL

620005 Cowpens Keys, Florida

LOCATION: $25^{\circ}0.2'N$; $80^{\circ}33.5'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Trees (Mangrove)

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Brown Pelican	April 19	60	Feathered Young	Aerial Estimate-Fixed Wing
Double-Cr. Cormorant	April 19	40	Downy Young	Aerial Estimate-Fixed Wing
	May 16	200	Feathered Young	Unknown

620007 Cutler (Paradise Pt.), Florida

LOCATION: $25^{\circ}38.2'N$; $80^{\circ}17.3'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Trees (Mangrove)

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Double-Cr. Cormorant	July 17	700	Flying Young	Aerial Estimate-Fixed Wing

620009 Frank Key, Florida

LOCATION: $25^{\circ}6.3'N$; $80^{\circ}54.7'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Trees (Mangrove)

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Brown Pelican	Jan. 27	500	Egg Laying	Nest Count-Ground
Double-Cr. Cormorant	Jan. 27	700	Egg Laying	Nest Count-Ground
	July 2	400	Downy Young	Nest Count-Ground

620 MIAMI, FL (Continued)

620012 Nest Keys South, Florida

LOCATION: $25^{\circ}08.8'N$; $80^{\circ}30.6'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Sand or Shell

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Double-Cr. Cormorant	April 20	50	Flying Young	Nest Count-Ground

620016 Sandy Key, Florida

LOCATION: $25^{\circ}2.0'N$; $81^{\circ}0.9'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Trees (Mangrove)

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Double-Cr. Cormorant	April 21	500	Feathered Young	Nest Count-Ground
	June 1	500	Flying Young	Nest Count-Ground
	July 11	500	Flying Young	Nest Count-Ground

620046 Curlew Key, Florida

LOCATION: $25^{\circ}05.9'N$; $80^{\circ}50.2'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Sand or Shell

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Laughing Gull	May 3	50	Pairing	Aerial Estimate-Fixed Wing

620 MIAMI, FL (Continued)

620053 Man of War Key, Florida

LOCATION: $25^{\circ}01.9'N$; $80^{\circ}54.6'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Sand or Shell

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Laughing Gull	July 13	120	Loafing	Nest Count-Ground

620054 South of Buoy Key, Florida

LOCATION: $25^{\circ}06.7'N$; $80^{\circ}49.5'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Sand or Shell

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Laughing Gull	June 23	60	Loafing	Ground Estimate

620055 East of Pelican Key, Florida

LOCATION: $25^{\circ}03.8'N$; $80^{\circ}50.1'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Sand or Shell

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Laughing Gull	May 3	4	Egg Laying	Aerial Estimate-Fixed Wing
	Jun 23	40	Flying Young	Aerial Estimate-Fixed Wing

620 MIAMI, FL (Continued)

620056 Pelican Key, Florida

LOCATION: $25^{\circ}04.1'N$; $80^{\circ}51.5'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Sand or Shell

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Laughing Gull	June 23	150	Loafing	Ground Estimate

620057 Cluett Key, Florida

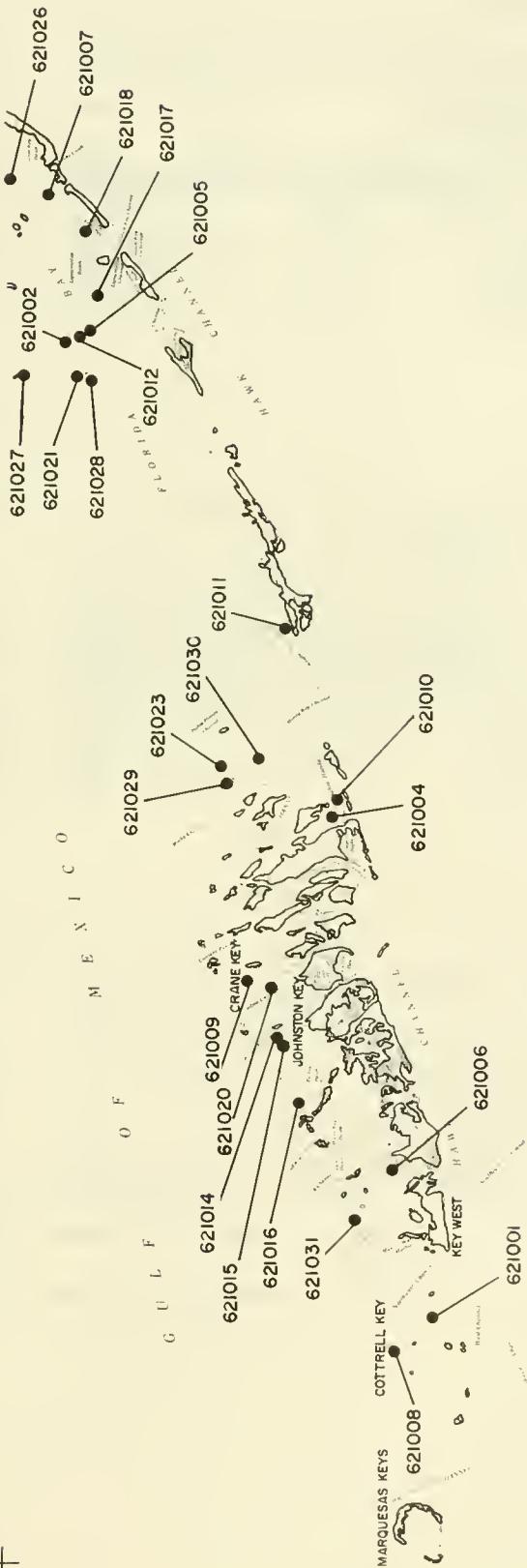
LOCATION: $25^{\circ}01.9'N$; $80^{\circ}51.8'N$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Sand or Shell

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Laughing Gull	June 23	60	Flying Young	Aerial Estimate-Fixed Wing

KEY WEST

82°15'W
26°N

80°15'W



A
F L O R I D A

O F

S T R A I T S

SCALE IN KILOMETERS
5 0 5 10 15 20 25 30

24°N

621 . . . KEY WEST

621 KEY WEST, FL

621001 Archer Key, Florida

LOCATION: $24^{\circ}33.7'N$; $81^{\circ}53.3'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Trees (Mangrove)

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Double-Cr. Cormorant	May 14	36	Downy Young	Aerial Estimate- Fixed Wing

621002 Barnes Key, Florida

LOCATION: $24^{\circ}56.3'N$; $80^{\circ}47.2'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Sand or Shell

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Laughing Gull	June 23	100	Feathered Young	Aerial Estimate- Fixed Wing
Double-Cr. Cormorant	April 19	80	Feathered Young	Aerial Estimate- Fixed Wing

621004 Big Mangrove Key, Florida

LOCATION: $24^{\circ}40.0'N$; $81^{\circ}19.6'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Trees (Mangrove)

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Brown Pelican	May 14	60	Feathered Young	Aerial Estimate- Fixed Wing
Double-Cr. Cormorant	May 14	40	Feathered Young	Aerial Estimate- Fixed Wing

621 KEY WEST, FL (Continued)

621005 Buchanan Key, Florida

LOCATION: $24^{\circ}55.1'N$; $80^{\circ}46.6'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Sand or Shell

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Brown Pelican	Feb. 13	176	Incubation	Nest Count-Ground
Double-Cr.	Feb. 13	400	Downy Young	Nest Count-Ground
Cormorant	June 14	400	Flying Young	Nest Count-Ground
Laughing Gull	June 1	2	Incubation	Nest Count-Ground

621006 Channel Key, Florida

LOCATION: $24^{\circ}36.2'N$; $81^{\circ}43.3'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Trees (Mangrove)

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Double-Cr.	May 14	700	Downy Young	Aerial Estimate-Fixed Wing
Cormorant				

621007 Cotton Key, Florida

LOCATION: $24^{\circ}57.6'N$; $80^{\circ}37.5'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Trees (Mangrove)

<u>SPECIES</u>	<u>DATE</u>	<u>BEEEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Double-Cr.	April 19	80	Feathered Young	Aerial Estimate-Fixed Wing
Cormorant				

621 KEY WEST, FL (Continued)

621008 Cottrell Key, Florida

LOCATION: $24^{\circ}36.2'N$; $81^{\circ}55.4'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Trees (Mangrove)

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Brown Pelican	May 27	280	Hatching	Aerial Estimate-Fixed Wing
Double-Cr. Cormorant	May 27	840	Incubation	Aerial Estimate-Fixed Wing

621009 Crane Key, Florida

LOCATION: $24^{\circ}45.3'N$; $81^{\circ}30.8'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Trees (Mangrove)

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Brown Pelican	May 27	16	Feathered Young	Aerial Estimate-Fixed Wing

621 KEY WEST, FL (Continued)

621010 Don Quixote Key, Florida

LOCATION: $24^{\circ}39.8'N$; $81^{\circ}18.6'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Trees (Mangrove)

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Double-Cr. Cormorant	June 2	10	Flying Young	Nest Count-Ground

621011 Fanny Keys, Florida

LOCATION: $24^{\circ}42.7'N$; $81^{\circ}6.1'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Trees (Mangrove)

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Brown Pelican	May 14	140	Flying Young	Aerial Estimate-Fixed Wing
Double-Cr. Cormorant	May 14	1160	Downy Young	Aerial Estimate-Fixed Wing

621012 Green Mangrove Key, Florida

LOCATION: $24^{\circ}55.5'N$; $80^{\circ}47.1'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Trees (Mangrove)

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Double-Cr. Cormorant	April 19	80	Feathered Young	Aerial Estimate-Fixed Wing

621 KEY WEST, FL (Continued)

621014 Johnston Key Mangroves, Florida

LOCATION: $24^{\circ}43.7'N$; $81^{\circ}34.8'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Trees (Mangrove)

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Brown Pelican	May 27	50	Flying Young	Aerial Estimate-Fixed Wing
Double-Cr. Cormorant	May 27	30	Feathered Young	Aerial Estimate-Fixed Wing

621015 Johnston Keys - West, Florida

LOCATION: $24^{\circ}43.2'N$; $81^{\circ}35.7'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Trees (Mangrove)

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Double-Cr. Cormorant	June 2	40	Feathered Young	Nest Count-Ground

621016 Marvin Keys - South, Florida

LOCATION: $24^{\circ}41.9'N$; $81^{\circ}38.9'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Trees (Mangrove)

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Double-Cr. Cormorant	May 14	20	Feathered Young	Aerial Estimate-Fixed Wing

621 KEY WEST, FL (Continued)

621017 Peterson Keys - East, Florida

LOCATION: $24^{\circ}54.5'N$; $80^{\circ}44.3'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Trees (Mangrove)

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Double-Cr. Cormorant	April 19	50	Downy Young	Aerial Estimate- Fixed Wing

621018 Shell Key, Florida

LOCATION: $24^{\circ}55.3'N$; $80^{\circ}40.0'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Trees (Mangrove)

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Double-Cr. Cormorant	April 19	500	Feathered Young	Aerial Estimate- Fixed Wing

621020 Tarpon Belly Keys, Florida

LOCATION: $24^{\circ}43.8'N$; $81^{\circ}31.2'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Trees (Mangrove)

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Double-Cr. Cormorant	May 27	140	Downy Young	Aerial Estimate- Fixed Wing

621 KEY WEST, FL (Continued)

621021 Upper Arsnicker Keys, Florida

LOCATION: $24^{\circ}55.8'N$; $80^{\circ}49.7'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Sand or Shell

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Brown Pelican	April 19	40	Downy Young	Aerial Estimate-Fixed Wing
Double-Cr. Cormorant	April 19	120	Feathered Young	Aerial Estimate-Fixed Wing

621023 West Bahia Honda Key, Florida

LOCATION: $24^{\circ}46.9'N$; $81^{\circ}16.3'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Trees (Mangrove)

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Double-Cr. Cormorant	May 27	360	Hatching	Aerial Estimate-Fixed Wing

621026 East Key, Florida

LOCATION: $25^{\circ}00.0'N$; $80^{\circ}36.6'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Sand or Shell

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Laughing Gull	May 14	200	Egg Laying	Aerial Estimate-Fixed Wing
	June 1	366	Hatching	Nest Count-Ground

621 KEY WEST, FL (Continued)

621027 Rabbit Keys, Florida

LOCATION: $24^{\circ}59.3'N$; $80^{\circ}49.8'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Sand or Shell

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Laughing Gull	May 3	3	Pairing	Aerial Estimate-Fixed Wing
	June 23	60	Flying Young	Nest Count-Ground

621028 Lower Arsnicker Key, Florida

LOCATION: $24^{\circ}55.2'N$; $80^{\circ}49.6'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Sand or Shell

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Laughing Gull	June 23	60	Flying Young	Aerial Estimate-Fixed Wing

621029 Horseshoe Keys - East, Florida

LOCATION: $24^{\circ}46.4'N$; $81^{\circ}16.5'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Sand or Shell

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Laughing Gull	May 27	350	Hatching	Aerial Estimate-Fixed Wing
	June 10	1058	Feathered Young	Nest Count-Ground

621 KEY WEST, FL (Continued)

621030 Teatable Key, Florida

LOCATION: $24^{\circ}44.6'N$; $81^{\circ}15.7'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Sand or Shell

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Laughing Gull	May 27	120	Hatching	Aerial Estimate-Fixed Wing

621031 Bay Key, Florida

LOCATION: $24^{\circ}38.5'N$; $81^{\circ}46.7'W$
 SITE DESCRIPTION: Island-Coastal
 NEST SUBSTRATE: Trees (Mangrove)

<u>SPECIES</u>	<u>DATE</u>	<u>BREEDING BIRDS</u>	<u>NESTING STAGE</u>	<u>INVENTORY METHOD</u>
Double-Cr. Cormorant	May 14	970	Downy Young	Aerial Estimate-Fixed Wing

APPENDIX A

Table A1. Index to colonies by species.

Colony number	Colony name	Breeding birds	Site description
<u>Brown Pelican</u>			
North Carolina 499007	North Rock	270	Island-Coastal
South Carolina 563006 564012	Deveaux Bank White Island	2944 3010	Marsh Island-Coastal
Florida			
606001	New Smyrna Beach	70*	Urban
606002	Port Orange	700*	Island-Coastal
612001	Bird Island	700*	Marsh
612002	George and Brady Island	500*	Island-Coastal
612003	Hall Island	500*	Island-Coastal
616003	Fort Pierce Spoil	294*	Island-Coastal
616007	Pelican Island	600*	Island-Coastal
616008	Riomar Spoil	626*	Island-Coastal
616009	Sewall Point East	300*	Island-Coastal
620005	Cowpens Keys	60	Island-Coastal
620009	Frank Key	500	Island-Coastal
621004	Big Mangrove Key	60	Island-Coastal
621005	Buchanan Key	176	Island-Coastal
621008	Cottrell Key	280	Island-Coastal
621009	Crane Key	16	Island-Coastal
621011	Fanny Keys	140	Island-Coastal
621014	Johnston Key Mangroves	50	Island-Coastal
621021	Upper Arsnicker Keys	40	Island-Coastal
<u>Double-Crested Cormorant</u>			
North Carolina 523029	Lake Ellis Simon	26	Swamp
Florida			
606002	Port Orange	400*	Island-Coastal
606003	St. Marks Pond Swamp	100	Swamp
612001	Bird Island	500*	Marsh
612002	George & Brady Island	900*	Island-Coastal
612003	Hall Island	1450*	Island-Coastal
612004	Haulover Canal	60*	Island-Coastal
612007	Moore Creek	860*	Island-Coastal
616001	County Line Spoil	10	Island-Coastal
616002	Duck Point Spoil	120*	Island-Coastal
616003	Fort Pierce Spoil	190*	Island-Coastal

Table A1. (continued)

Colony number	Colony name	Breeding birds	Site description
<u>Double-Crested Cormorant (Continued)</u>			
Florida (Cont.)			
616004	Grant Farm Island	50*	Island-Coastal
616007	Pelican Island	250*	Island-Coastal
616008	Riomar Spoil	50*	Island-Coastal
616009	Sewall Point East	150*	Island-Coastal
620005	Cowpens Keys	200*	Island-Coastal
620007	Cutler (Paradise Pt.)	700	Island-Coastal
620009	Frank Key	700*	Island-Coastal
620012	Nest Keys-South	50	Island-Coastal
620016	Sandy Key	500*	Island-Coastal
621001	Archer Key	36	Island-Coastal
621002	Barnes Key	80	Island-Coastal
621004	Big Mangrove Key	40	Island-Coastal
621005	Buchanan Key	400*	Island-Coastal
621006	Channel Key	700	Island-Coastal
621007	Cotton Key	80	Island-Coastal
621008	Cottrell Key	840	Island-Coastal
621010	Don Quixote Key	10	Island-Coastal
621011	Fanny Keys	1160	Island-Coastal
621012	Green Mangrove Key	80	Island-Coastal
621014	Johnston Key Mangroves	30	Island-Coastal
621015	Johnston Keys-West	40	Island-Coastal
621016	Marvin Keys-South	20	Island-Coastal
621017	Peterson Keys-East	50	Island-Coastal
621018	Shell Key	500	Island-Coastal
621020	Tarpon Belly Keys	140	Island-Coastal
621021	Upper Arsnicker Keys	120	Island-Coastal
621023	West Bahia Honda Key	360	Island-Coastal
621031	Bay Key	970	Island-Coastal
<u>Great Black-Backed Gull</u>			
North Carolina			
500002	Herring Gull Island	6	Island-Coastal
<u>Herring Gull</u>			
North Carolina			
499022	Shell Castle	16	Island-Coastal
499023	Long Rock	22	Island-Coastal
500002	Herring Gull Island	462	Island-Coastal
500005	Unnamed	62	Island-Coastal
500006	Unnamed	36	Island-Coastal
500009	Unnamed	36	Island-Coastal
523003	Dump Island	6	Island-Coastal

Table A1. (continued)

Colony number	Colony name	Breeding birds	Site description
<u>Laughing Gull</u>			
North Carolina			
499001	Beacon Island	3034	Marsh
500001	Gull Island	2906	Island-Coastal
500002	Herring Gull Island	2008	Island-Coastal
500003	Outer Green	334	Marsh
500005	Unnamed	14	Island-Coastal
500006	Unnamed	96	Island-Coastal
500009	Unnamed	296	Island-Coastal
500018	Royal Tern Island	898	Island-Coastal
500020	Hatteras Inlet	16	Island-Coastal
500021	Hatteras Inlet	4	Island-Coastal
523003	Dump Island	8478	Island-Coastal
523007	Morgan Island	2772	Island-Coastal
523011	Shell Island	1248	Island-Coastal
523016	Tump Island	16	Marsh
523054	Laughing Gull	1322	Island-Coastal
523055	Chainshot	962	Island-Coastal
523056	Harbor	214	Island-Coastal
523058	Dump South	52	Island-Coastal
544019	Unnamed	8	Island-Coastal
544020	Unnamed	22*	Island-Coastal
544021	Royal Tern Island	6	Island-Coastal
South Carolina			
544005	White Banks	2940*	Marsh
563006	Deveaux Bank	5000*	Marsh
564001	Bird Island	3000*	Island-Coastal
Florida			
620046	Curlew Key	50	Island-Coastal
620053	Man of War Key	120	Island-Coastal
620054	South of Buoy Key	60	Island-Coastal
620055	East of Pelican Key	40*	Island-Coastal
620056	Pelican Key	150	Island-Coastal
620057	Cluett Key	60	Island-Coastal
621002	Barnes Key	100	Island-Coastal
621005	Buchanan Key	2	Island-Coastal
621026	East Key	366*	Island-Coastal
621027	Rabbit Keys	60*	Island-Coastal
621028	Lower Arsnicker Key	60	Island-Coastal
621029	Horseshoe Keys-East	1058*	Island-Coastal
621030	Teatable Key	120	Island-Coastal

Table A1. (continued)

Colony number	Colony name	Breeding birds	Site description
<u>Gull-Billed Tern</u>			
North Carolina			
499009	Ocracoke Flats	24	Barrier Beach
499012	Portsmouth Island	62*	Barrier Beach
499015	Hog Island Reef	8	Island-Coastal
499016	Unnamed	20	Island-Coastal
500005	Unnamed	12	Island-Coastal
500009	Unnamed	20	Island-Coastal
500010	Unnamed	8	Island-Coastal
500011	Unnamed	16	Island-Coastal
500013	Stumpy Point Bay	48	Island-Coastal
500019	Hatteras Inlet	16*	Island-Coastal
500020	Hatteras Inlet	2	Island-Coastal
500021	Hatteras Inlet	90*	Island-Coastal
523017	Unnamed	14	Island-Coastal
523019	Bottle Run	18*	Island-Coastal
523022	Unnamed	32*	Island-Coastal
523024	Unnamed	2	Island-Coastal
523025	Unnamed	28	Island-Coastal
523026	Annex Island	2	Island-Coastal
523028	Brant Island	44*	Island-Coastal
523030	Unnamed	8	Island-Coastal
523032	Unnamed	4	Island-Coastal
523033	Unnamed	4	Island-Coastal
523044	North Old-Topsail	6	Barrier Beach
523045	Unnamed	26	Island-Coastal
523048	Bird I.	40	Island-Coastal
523050	Masonboro Island	10	Barrier Beach
523053	Unnamed	130	Island-Coastal
523061	New Dump	58*	Island-Coastal
544019	Unnamed	60	Island-Coastal
544022	Unnamed	48*	Island-Coastal
544024	Gull-Billed Tern	40	Island-Coastal
South Carolina			
544005	White Banks	18*	Marsh
544014	Magnolia Beach	2	Barrier Beach
563017	Savannah River NWR	12	Marsh
564001	Bird Island	200*	Island-Coastal
Georgia			
594015	Bird Islands	182*	Island-Coastal

Table A1. (continued)

Colony number	Colony name	Breeding birds	Site description
<u>Forster's Tern</u>			
North Carolina			
499001	Beacon Island	282	Marsh
499002	Big Swan Island	abandoned	Island-Coastal
499007	North Rock	94	Island-Coastal
499010	North Casey	94	Marsh
499011	Unnamed	86	Marsh
499022	Shell Castle	116	Island-Coastal
500001	Gull Island	112	Island-Coastal
500018	Royal Tern Island	130	Island-Coastal
500020	Hatteras Inlet	98	Island-Coastal
500021	Hatteras Inlet	78	Island-Coastal
500024	Unnamed	262	Marsh
523015	Big Deep	18	Marsh
523016	Tump Island	138	Marsh
523040	Tiny Triangle	46	Island-Coastal
523058	Dump South	36	Island-Coastal
523059	Unnamed	20	Island-Coastal
<u>Common Tern</u>			
North Carolina			
499002	Big Swan Island	abandoned	Island-Coastal
499007	North Rock	120	Island-Coastal
499009	Ocracoke Flats	808	Barrier Beach
499012	Portsmouth Island	50*	Barrier Beach
499013	Shell Point	104	Marsh
499014	Rattan Bay	97	Marsh
499015	Hog Island Reef	18	Island-Coastal
499016	Unnamed	12	Island-Coastal
499019	Judith Point	107	Marsh
499020	Judith Island Point	184*	Marsh
499021	Sow Island	70*	Marsh
499022	Shell Castle	82	Island-Coastal
499023	Long Rock	50	Island-Coastal
500005	Unnamed	342	Island-Coastal
500008	Unnamed	450	Island-Coastal
500009	Unnamed	82	Island-Coastal
500010	Unnamed	154	Island-Coastal
500011	Unnamed	174	Island-Coastal
500013	Stumpy Point Bay	576	Island-Coastal
500017	King Island	24	Marsh
500019	Hatteras Inlet	32*	Island-Coastal
500020	Hatteras Inlet	552	Island-Coastal
500021	Hatteras Inlet	986*	Island-Coastal

Table A1. (continued)

Colony number	Colony name	Breeding birds	Site description
<u>Common Tern (Continued)</u>			
North Carolina			
500025	Unnamed	22	Island-Coastal
523013	Woodhouse Island	286*	Island-Coastal
523017	Unnamed	584	Island-Coastal
523018	Unnamed	66	Island-Coastal
523019	Bottle Run	122*	Island-Coastal
523020	Shackleford	82	Barrier Beach
523022	Unnamed	222*	Island-Coastal
523023	Unnamed	4	Marsh
523024	Unnamed	2	Island-Coastal
523025	Unnamed	6	Island-Coastal
523026	Annex Island	2	Island-Coastal
523028	Brant Island	230*	Island-Coastal
523030	Unnamed	182	Island-Coastal
523032	Unnamed	6	Island-Coastal
523033	Unnamed	6	Island-Coastal
523038	Unnamed	28	Island-Coastal
523039	Unnamed	14*	Island-Coastal
523044	North Old-Topsail	74	Barrier Beach
523045	Unnamed	386	Island-Coastal
523047	Unnamed	4	Island-Coastal
523048	Bird I.	76	Island-Coastal
523050	Masonboro Island	4	Barrier Beach
523053	Unnamed	2	Island-Coastal
523054	Laughing Gull	82	Island-Coastal
523061	New Dump	496*	Island-Coastal
544022	Unnamed	4	Island-Coastal
544024	Gull-Billed Tern	16	Island-Coastal
544026	Monks Island	6	Island-Coastal
<u>Least Tern</u>			
North Carolina			
499009	Ocracoke Flats	14	Barrier Beach
499012	Portsmouth Island	283*	Barrier Beach
499017	Cedar Island	2	Island-Coastal
499018	North Bay	unknown	Island-Coastal
500005	Unnamed	268	Island-Coastal
500007	Oregon Inlet North	15	Barrier Beach
500012	Unnamed	8	Island-Coastal
500013	Stumpy Point Bay	20	Island-Coastal
500014	Long Shoal Point	67	Marsh
500015	Manteo Airport	42	Marsh
500016	Hatteras Island	82*	Barrier Beach

Table A1. (continued)

Colony number	Colony name	Breeding birds	Site description
<u>Least Tern (Continued)</u>			
North Carolina			
500019	Hatteras Inlet	2	Island-Coastal
500021	Hatteras Inlet	562*	Island-Coastal
500022	Ocracoke	4	Barrier Beach
500023	Whalebone	22	Marsh
500025	Unnamed	22	Island-Coastal
523001	Alligator Bay	10	Island-Coastal
523007	Morgan Island	4	Island-Coastal
523014	Core Banks	9	Barrier Beach
523021	Unnamed	2	Island-Coastal
523022	Unnamed	120*	Island-Coastal
523023	Unnamed	70	Marsh
523024	Unnamed	64	Island-Coastal
523027	Unnamed	140*	Island-Coastal
523028	Brant Island	2	Island-Coastal
523030	Unnamed	2	Island-Coastal
523031	Unnamed	52	Island-Coastal
523032	Unnamed	192*	Island-Coastal
523033	Unnamed	110	Island-Coastal
523034	Unnamed	12	Island-Coastal
523035	Unnamed	14	Island-Coastal
523036	Bogue Inlet	2	Marsh
523037	Hammocks Beach	2	Barrier Beach
523039	Unnamed	32*	Island-Coastal
523041	Alligator Bay Main	2	Marsh
523042	Unnamed	10	Island-Coastal
523043	Topsail South	2	Barrier Beach
523045	Unnamed	132	Island-Coastal
523046	Rich Inlet South	2	Barrier Beach
523049	Shinn Creek	6*	Island-Coastal
523050	Masonboro Island	26	Barrier Beach
523051	Unnamed	30	Island-Coastal
523057	Cedar Point	10	Marsh
523060	Core Banks	6	Barrier Beach
523061	New Dump	6	Island-Coastal
523062	Core Banks	118	Barrier Beach
544009	Unnamed	2	Marsh
544010	Unnamed	6	Island-Coastal
544011	Sunset Beach	246	Barrier Beach
544012	Unnamed	10	Marsh
544022	Unnamed	58*	Island-Coastal
544023	Carolina Beach	210	Barrier Beach
544025	Unnamed	46*	Island-Coastal
544026	Monks Island	108*	Island-Coastal

Table A1. (continued)

Colony number	Colony name	Breeding birds	Site description
<u>Least Tern (Continued)</u>			
South Carolina			
544013	Waiter Island	18	Barrier Beach
544014	Magnolia Beach	22*	Barrier Beach
544015	DuBourdieu Beach	38*	Barrier Beach
544016	North Island	6	Barrier Beach
544017	Sand Bank	12	Barrier Beach
544018	Cedar Island	3	Barrier Beach
563006	Deveaux Bank	10	Marsh
563012	John's Island Airport	10	Marsh
563013	Kiawah Island	118*	Barrier Beach
563014	Botany Bay	60	Barrier Beach
563015	Edinesville Beach	6	Barrier Beach
563016	Hunting Island	18*	Barrier Beach
563017	Savannah River NWR	178	Marsh
564001	Bird Island	500	Island-Coastal
564006	Northwood Mall	56*	Urban
564007	Charleston Naval Base	48	Urban
564008	Hog Island	22*	Island-Coastal
564009	Riverview Inn	58	Marsh
564010	Folly River Road	3	Marsh
Georgia			
594013	Long Point	30	Barrier Beach
594014	Willow Pond Beach	30	Island-Coastal
594015	Bird Islands	166*	Island-Coastal
Florida			
616002	Duck Point Spoil	138	Island-Coastal
616051	Micco	56	Island-Coastal
<u>Royal Tern</u>			
North Carolina			
499023	Long Rock	122	Island-Coastal
500001	Gull Island	1462	Island-Coastal
500011	Unnamed	5440	Island-Coastal
500018	Royal Tern Island	1794*	Island-Coastal
523003	Dump Island	6888*	Island-Coastal
523007	Morgan Island	5628	Island-Coastal
523011	Shell Island	2704*	Island-Coastal
544021	Royal Tern Island	8800*	Island-Coastal
South Carolina			
563006	Deveaux Bank	12000*	Marsh
564001	Bird Island	10400*	Island-Coastal

Table A1. (continued)

Colony number	Colony name	Breeding birds	Site description
<u>Royal Tern (Continued)</u>			
Georgia 594015	Bird Islands	4000*	Island-Coastal
<u>Sandwich Tern</u>			
North Carolina 500011	Unnamed	88	Island-Coastal
523003	Dump Island	1152	Island-Coastal
523007	Morgan Island	76	Island-Coastal
523011	Shell Island	44	Island-Coastal
544021	Royal Tern Island	4	Island-Coastal
South Carolina 563006	Deveaux Bank	300*	Marsh
Georgia 594015	Bird Islands	40*	Island-Coastal
<u>Caspian Tern</u>			
North Carolina 500011	Unnamed	18	Island-Coastal
<u>Black Skimmer</u>			
North Carolina 499002	Big Swan Island	abandoned	Island-Coastal
499009	Ocracoke Flats	392	Barrier Beach
499012	Portsmouth Island	124*	Barrier Beach
499015	Hog Island Reef	2	Island-Coastal
499016	Unnamed	2	Island-Coastal
500005	Unnamed	46	Island-Coastal
500008	Unnamed	42	Island-Coastal
500009	Unnamed	322	Island-Coastal
500010	Unnamed	64	Island-Coastal
500011	Unnamed	108	Island-Coastal
500013	Stumpy Point Bay	291	Island-Coastal
500019	Hatteras Inlet	52	Island-Coastal
500020	Hatteras Inlet	190	Island-Coastal
500021	Hatteras Inlet	310*	Island-Coastal
523007	Morgan Island	6	Island-Coastal
523013	Woodhouse Island	28	Island-Coastal
523016	Tump Island	4	Marsh
523017	Unnamed	96	Island-Coastal

Table A1. (continued)

Colony number	Colony name	Breeding birds	Site description
<u>Black Skimmer (Continued)</u>			
North Carolina			
523019	Bottle Run	12	Island-Coastal
523022	Unnamed	62*	Island-Coastal
523023	Unnamed	4	Marsh
523028	Brant Island	36*	Island-Coastal
523030	Unnamed	8	Island-Coastal
523032	Unnamed	4	Island-Coastal
523033	Unnamed	6	Island-Coastal
523038	Unnamed	10	Island-Coastal
523039	Unnamed	10*	Island-Coastal
523044	North Old-Topsail	54	Barrier Beach
523045	Unnamed	43	Island-Coastal
523048	Bird I.	30	Island-Coastal
523050	Masonboro Island	40*	Barrier Beach
523052	Unnamed	2	Island-Coastal
523053	Unnamed	2	Island-Coastal
523061	New Dump	360*	Island-Coastal
544023	Carolina Beach	274	Barrier Beach
544026	Monks Island	12	Island-Coastal
South Carolina			
544005	White Banks	150*	Marsh
544016	North Island	45	Barrier Beach
544017	Sand Bank	94	Barrier Beach
563006	Deveaux Bank	375*	Marsh
563017	Savannah River NWR	4	Marsh
564001	Bird Island	468	Island-Coastal
564011	Bird Key	300	Island-Coastal
Georgia			
581025	Pelican Spit	400	Island-Coastal
594012	Little Cumberland Island	60	Barrier Beach
594013	Long Point	300	Barrier Beach
594015	Bird Islands	1907	Island-Coastal
Florida			
616051	Micco	2	Island-Coastal

* Colony censused at least twice. Number in table is the highest estimation of breeding birds.

APPENDIX B

Table B1. Index to colonies by state.

North Carolina

Colony number	Colony name	Breeding birds	Site description
Brown Pelican 499007	North Rock	270	Island-Coastal
Double-Crested Cormorant 523029	Lake Ellis Simon	26	Swamp
Great Black-Backed Gull 500002	Herring Gull Island	6	Island-Coastal
Herring Gull 499022	Shell Castle	16	Island-Coastal
499023	Long Rock	22	Island-Coastal
500002	Herring Gull Island	462	Island-Coastal
500005	Unnamed	62	Island-Coastal
500006	Unnamed	36	Island-Coastal
500009	Unnamed	36	Island-Coastal
523003	Dump Island	6	Island-Coastal
Laughing Gull 499001	Beacon Island	3034	Marsh
500001	Gull Island	2906	Island-Coastal
500002	Herring Gull Island	2008	Island-Coastal
500003	Outer Green	334	Marsh
500005	Unnamed	14	Island-Coastal
500006	Unnamed	96	Island-Coastal
500009	Unnamed	296	Island-Coastal
500018	Royal Tern Island	898	Island-Coastal
500020	Hatteras Inlet	16	Island-Coastal
500021	Hatteras Inlet	4	Island-Coastal
523003	Dump Island	8478	Island-Coastal
523007	Morgan Island	2772	Island-Coastal
523011	Shell Island	1248	Island-Coastal
523016	Tump Island	16	Marsh
523054	Laughing Gull	1322	Island-Coastal
523055	Chainshot	962	Island-Coastal
523056	Harbor	214	Island-Coastal
523058	Dump South	52	Island-Coastal
544019	Unnamed	8	Island-Coastal
544020	Unnamed	22*	Island-Coastal
544021	Royal Tern Island	6	Island-Coastal

Table B1. (continued)

North Carolina (continued)

Colony number	Colony name	Breeding birds	Site description
Gull-Billed Tern			
499009	Ocracoke Flats	24	Barrier Beach
499012	Portsmouth Island	62*	Barrier Beach
499015	Hog Island Reef	8	Island-Coastal
499016	Unnamed	20	Island-Coastal
500005	Unnamed	12	Island-Coastal
500009	Unnamed	20	Island-Coastal
500010	Unnamed	8	Island-Coastal
500011	Unnamed	16	Island-Coastal
500013	Stumpy Point Bay	48	Island-Coastal
500019	Hatteras Inlet	16*	Island-Coastal
500020	Hatteras Inlet	2	Island-Coastal
500021	Hatteras Inlet	90*	Island-Coastal
523017	Unnamed	14	Island-Coastal
523019	Bottle Run	18*	Island-Coastal
523022	Unnamed	32*	Island-Coastal
523024	Unnamed	2	Island-Coastal
523025	Unnamed	28	Island-Coastal
523026	Annex Island	2	Island-Coastal
523028	Brant Island	44*	Island-Coastal
523030	Unnamed	8	Island-Coastal
523032	Unnamed	4	Island-Coastal
523033	Unnamed	4	Island-Coastal
523044	North Old-Topsail	6	Barrier Beach
523045	Unnamed	26	Island-Coastal
523048	Bird I.	40	Island-Coastal
523050	Masonboro Island	10	Barrier Beach
523053	Unnamed	130	Island-Coastal
523061	New Dump	58*	Island-Coastal
544019	Unnamed	60	Island-Coastal
544022	Unnamed	48*	Island-Coastal
544024	Gull-Billed Tern	40	Island-Coastal
Forster's Tern			
499001	Beacon Island	282	Marsh
499002	Big Swan Island	abandoned	Island-Coastal
499007	North Rock	94	Island-Coastal
499010	North Casey	94	Marsh
499011	Unnamed	86	Marsh
499022	Shell Castle	116	Island-Coastal
500001	Gull Island	112	Island-Coastal
500018	Royal Tern Island	130	Island-Coastal
500020	Hatteras Inlet	98	Island-Coastal
500021	Hatteras Inlet	78	Island-Coastal
500024	Unnamed	262	Marsh

Table B1. (continued)

North Carolina (continued)

Colony number	Colony name	Breeding birds	Site description
Forster's Tern (continued)			
523015	Big Deep	18	Marsh
523016	Tump Island	138	Marsh
523040	Tiny Triangle	46	Island-Coastal
523058	Dump South	36	Island-Coastal
523059	Unnamed	20	Island-Coastal
Common Tern			
499002	Big Swan Island	abandoned	Island-Coastal
499007	North Rock	120	Island-Coastal
499009	Ocracoke Flats	808	Barrier Beach
499012	Portsmouth Island	50*	Barrier Beach
499013	Shell Point	104	Marsh
499014	Rattan Bay	97	Marsh
499015	Hog Island Reef	18	Island-Coastal
499016	Unnamed	12	Island-Coastal
499019	Judith Point	107	Marsh
499020	Judith Island Point	184*	Marsh
499021	Sow Island	70*	Marsh
499022	Shell Castle	82	Island-Coastal
499023	Long Rock	50	Island-Coastal
500005	Unnamed	342	Island-Coastal
500008	Unnamed	450	Island-Coastal
500009	Unnamed	82	Island-Coastal
500010	Unnamed	154	Island-Coastal
500011	Unnamed	174	Island-Coastal
500013	Stumpy Point Bay	576	Island-Coastal
500017	King Island	24	Marsh
500019	Hatteras Inlet	32*	Island-Coastal
500020	Hatteras Inlet	522	Island-Coastal
500021	Hatteras Inlet	986*	Island-Coastal
500025	Unnamed	22	Island-Coastal
523013	Woodhouse Island	286*	Island-Coastal
523017	Unnamed	584	Island-Coastal
523018	Unnamed	66	Island-Coastal
523019	Bottle Run	122*	Island-Coastal
523020	Shackleford	82	Barrier Beach
523022	Unnamed	222*	Island-Coastal
523023	Unnamed	4	Marsh
523024	Unnamed	2	Island-Coastal
523025	Unnamed	6	Island-Coastal
523026	Annex Island	2	Island-Coastal
523028	Brant Island	230*	Island-Coastal
523030	Unnamed	182	Island-Coastal
523032	Unnamed	6	Island-Coastal

Table B1. (continued)

North Carolina (continued)

Colony number	Colony name	Breeding birds	Site description
Common Tern (continued)			
523033	Unnamed	6	Island-Coastal
523038	Unnamed	28	Island-Coastal
523039	Unnamed	14*	Island-Coastal
523044	North Old-Topsail	74	Barrier Beach
523045	Unnamed	386	Island-Coastal
523047	Unnamed	4	Island-Coastal
523048	Bird I.	76	Island-Coastal
523050	Masonboro Island	4	Barrier Beach
523053	Unnamed	2	Island-Coastal
523054	Laughing Gull	82	Island-Coastal
523061	New Dump	496*	Island-Coastal
544022	Unnamed	4	Island-Coastal
544024	Gull-Billed Tern	16	Island-Coastal
544026	Monks Island	6	Island-Coastal
Least Tern			
499009	Ocracoke Flats	14	Barrier Beach
499012	Portsmouth Island	283*	Barrier Beach
499017	Cedar Island	2	Island-Coastal
499018	North Bay	unknown	Island-Coastal
500005	Unnamed	268	Island-Coastal
500007	Oregon Inlet North	15	Barrier Beach
500012	Unnamed	8	Island-Coastal
500013	Stumpy Point Bay	20	Island-Coastal
500014	Long Shoal Point	67	Marsh
500015	Manteo Airport	42	Marsh
500016	Hatteras Island	82*	Barrier Beach
500019	Hatteras Inlet	2	Island-Coastal
500021	Hatteras Inlet	562*	Island-Coastal
500022	Ocracoke	4	Barrier Beach
500023	Whalebone	22	Marsh
500025	Unnamed	22	Island-Coastal
523001	Alligator Bay	10	Island-Coastal
523007	Morgan Island	4	Island-Coastal
523014	Core Banks	9	Barrier Beach
523021	Unnamed	2	Island-Coastal
523022	Unnamed	120*	Island-Coastal
523023	Unnamed	70	Marsh
523024	Unnamed	64	Island-Coastal
523027	Unnamed	140*	Island-Coastal
523028	Brant Island	2	Island-Coastal
523030	Unnamed	2	Island-Coastal
523031	Unnamed	52	Island-Coastal

Table B1. (continued)

North Carolina (continued)

Colony number	Colony name	Breeding birds	Site description
Least Tern (continued)			
523032	Unnamed	192*	Island-Coastal
523033	Unnamed	110	Island-Coastal
523034	Unnamed	12	Island-Coastal
523035	Unnamed	14	Island-Coastal
523036	Bogue Inlet	2	Marsh
523037	Hammocks Beach	2	Barrier Beach
523039	Unnamed	32*	Island-Coastal
523041	Alligator Bay Main	2	Marsh
523042	Unnamed	10	Island-Coastal
523043	Topsail South	2	Barrier Beach
523045	Unnamed	132	Island-Coastal
523046	Rich Inlet South	2	Barrier Beach
523049	Shinn Creek	6*	Island-Coastal
523050	Masonboro Island	26	Barrier Beach
523051	Unnamed	30	Island-Coastal
523057	Cedar Point	10	Marsh
523060	Core Banks	6	Barrier Beach
523061	New Dump	6	Island-Coastal
523062	Core Banks	118	Barrier Beach
544009	Unnamed	2	Marsh
544010	Unnamed	6	Island-Coastal
544011	Sunset Beach	246	Barrier Beach
544012	Unnamed	10	Marsh
544022	Unnamed	58*	Island-Coastal
544023	Carolina Beach	210	Barrier Beach
544025	Unnamed	46*	Island-Coastal
544026	Monks Island	108*	Island-Coastal
Royal Tern			
499023	Long Rock	122	Island-Coastal
500001	Gull Island	1462	Island-Coastal
500011	Unnamed	5440	Island-Coastal
500018	Royal Tern Island	1794*	Island-Coastal
523003	Dump Island	6888*	Island-Coastal
523007	Morgan Island	5628	Island-Coastal
523011	Shell Island	2704*	Island-Coastal
544021	Royal Tern Island	8800*	Island-Coastal
Sandwich Tern			
500011	Unnamed	88	Island-Coastal
523003	Dump Island	1152	Island-Coastal
523007	Morgan Island	76	Island-Coastal
523011	Shell Island	44	Island-Coastal
544021	Royal Tern Island	4	Island-Coastal

Table B1. (continued)

North Carolina (continued)

Colony number	Colony name	Breeding birds	Site description
Caspian Tern			
500011	Unnamed	18	Island-Coastal
Black Skimmer			
499002	Big Swan Island	abandoned	Island-Coastal
499009	Ocracoke Flats	392	Barrier Beach
499012	Portsmouth Island	124*	Barrier Beach
499015	Hog Island Reef	2	Island-Coastal
499016	Unnamed	2	Island-Coastal
500005	Unnamed	46	Island-Coastal
500008	Unnamed	42	Island-Coastal
500009	Unnamed	322	Island-Coastal
500010	Unnamed	64	Island-Coastal
500011	Unnamed	108	Island-Coastal
500013	Stumpy Point Bay	291	Island-Coastal
500019	Hatteras Inlet	52	Island-Coastal
500020	Hatteras Inlet	190	Island-Coastal
500021	Hatteras Inlet	310*	Island-Coastal
523007	Morgan Island	6	Island-Coastal
523013	Woodhouse Island	28	Island Marsh
523016	Tump Island	4	Marsh
523017	Unnamed	96	Island-Coastal
523019	Bottle Run	12	Island-Coastal
523022	Unnamed	62*	Island-Coastal
523023	Unnamed	4	Marsh
523028	Brant Island	36*	Island-Coastal
523030	Unnamed	8	Island-Coastal
523032	Unnamed	4	Island-Coastal
523033	Unnamed	6	Island-Coastal
523038	Unnamed	10	Island-Coastal
523039	Unnamed	10*	Island-Coastal
523044	North Old-Topsail	54	Barrier Beach
523045	Unnamed	43	Island-Coastal
523048	Bird I.	30	Island-Coastal
523050	Masonboro Island	40*	Barrier Beach
523052	Unnamed	2	Island-Coastal
523053	Unnamed	2	Island-Coastal
523061	New Dump	360*	Island-Coastal
544023	Carolina Beach	274	Barrier Beach
544026	Monks Island	12	Island-Coastal

Table B1. (continued)

South Carolina

Colony number	Colony name	Breeding birds	Site description
Brown Pelican			
563006	Deveaux Bank	2944	Marsh
564012	White Island	3010	Island-Coastal
Laughing Gull			
544005	White Banks	2940*	Marsh
563006	Deveaux Bank	5000*	Marsh
564001	Bird Island	3000*	Island-Coastal
Gull-Billed Tern			
544005	White Banks	18*	Marsh
544014	Magnolia Beach	2	Barrier Beach
563017	Savannah River NWR	12	Marsh
564001	Bird Island	200*	Island-Coastal
Least Tern			
544013	Waiter Island	18	Barrier Beach
544014	Magnolia Beach	22*	Barrier Beach
544015	DuBourdieu Beach	38*	Barrier Beach
544016	North Island	6	Barrier Beach
544017	Sand Bank	12	Barrier Beach
544018	Cedar Island	3	Barrier Beach
563006	Deveaux Bank	10	Marsh
563012	John's Island Airport	10	Marsh
563013	Kiawah Island	118*	Barrier Beach
563014	Botany Bay	60	Barrier Beach
563015	Edinesville Beach	6	Barrier Beach
563016	Hunting Island	18*	Barrier Beach
563017	Savannah River NWR	178	Marsh
564001	Bird Island	500	Island-Coastal
564006	Northwood Mall	56*	Urban
564007	Charleston Naval Base	48	Urban
564008	Hog Island	22*	Island-Coastal
564009	Riverview Inn	58	Marsh
564010	Folly River Road	3	Marsh
Royal Tern			
563006	Deveaux Bank	12000*	Marsh
564001	Bird Island	10400*	Island-Coastal
Sandwich Tern			
563006	Deveaux Bank	300*	Marsh

Table B1. (continued)

South Carolina (continued)

Colony number	Colony name	Breeding birds	Site description
Black Skimmer			
544005	White Banks	150*	Marsh
544016	North Island	45	Barrier Beach
544017	Sand Bank	94	Barrier Beach
563006	Deveaux Bank	375*	Marsh
563017	Savannah River NWR	4	Marsh
564001	Bird Island	468	Island-Coastal
564011	Bird Key	300	Island-Coastal

Table B1. (continued)

Georgia

Colony number	Colony name	Breeding birds	Site description
Gull-Billed Tern 594015	Bird Islands	182*	Island-Coastal
Least Tern 594013	Long Point	30	Barrier Beach
594014	Willow Pond Beach	30	Island-Coastal
594015	Bird Islands	166*	Island-Coastal
Royal Tern 594015	Bird Islands	4000*	Island-Coastal
Sandwich Tern 594015	Bird Islands	40*	Island-Coastal
Black Skimmer 581025	Pelican Spit	400	Island-Coastal
594012	Little Cumberland Island	60	Barrier Beach
594013	Long Point	300	Barrier Beach
594015	Bird Islands	1907	Island-Coastal

Table B1. (continued)

Florida

Colony number	Colony name	Breeding birds	Site description
Brown Pelican			
606001	New Smyrna Beach	70*	Urban
606002	Port Orange	700*	Island-Coastal
612001	Bird Island	700*	Marsh
612002	George and Brady Island	500*	Island-Coastal
612003	Hall Island	500*	Island-Coastal
616003	Fort Pierce Spoil	294*	Island-Coastal
616007	Pelican Island	600*	Island-Coastal
616008	Riomar Spoil	626*	Island-Coastal
616009	Sewall Point East	300*	Island-Coastal
620005	Cowpens Keys	60	Island-Coastal
620009	Frank Key	500	Island-Coastal
621004	Big Mangrove Key	60	Island-Coastal
621005	Buchanan Key	176	Island-Coastal
621008	Cottrell Key	280	Island-Coastal
621009	Crane Key	16	Island-Coastal
621011	Fanny Keys	140	Island-Coastal
621014	Johnston Key Mangroves	50	Island-Coastal
621021	Upper Arsnicker Keys	40	Island-Coastal
Double-Crested Cormorant			
606002	Port Orange	400*	Island-Coastal
606003	St. Marks Pond Swamp	100	Swamp
612001	Bird Island	500*	Marsh
612002	George & Brady Island	900*	Island-Coastal
612003	Hall Island	1450*	Island-Coastal
612004	Haulover Canal	60*	Island-Coastal
612007	Moore Creek	860*	Island-Coastal
616001	County Line Spoil	10	Island-Coastal
616002	Duck Point Spoil	120*	Island-Coastal
616003	Fort Pierce Spoil	190*	Island-Coastal
616004	Grant Farm Island	50*	Island-Coastal
616007	Pelican Island	250*	Island-Coastal
616008	Riomar Spoil	50*	Island-Coastal
616009	Sewall Point East	150*	Island-Coastal
620005	Cowpens Keys	200*	Island-Coastal
620007	Cutler (Paradise Pt.)	700	Island-Coastal
620009	Frank Key	700*	Island-Coastal
620012	Nest Keys-South	50	Island-Coastal
620016	Sandy Key	500*	Island-Coastal
621001	Archer Key	36	Island-Coastal
621002	Barnes Key	80	Island-Coastal
621004	Big Mangrove Key	40	Island-Coastal
621005	Buchanan Key	400*	Island-Coastal

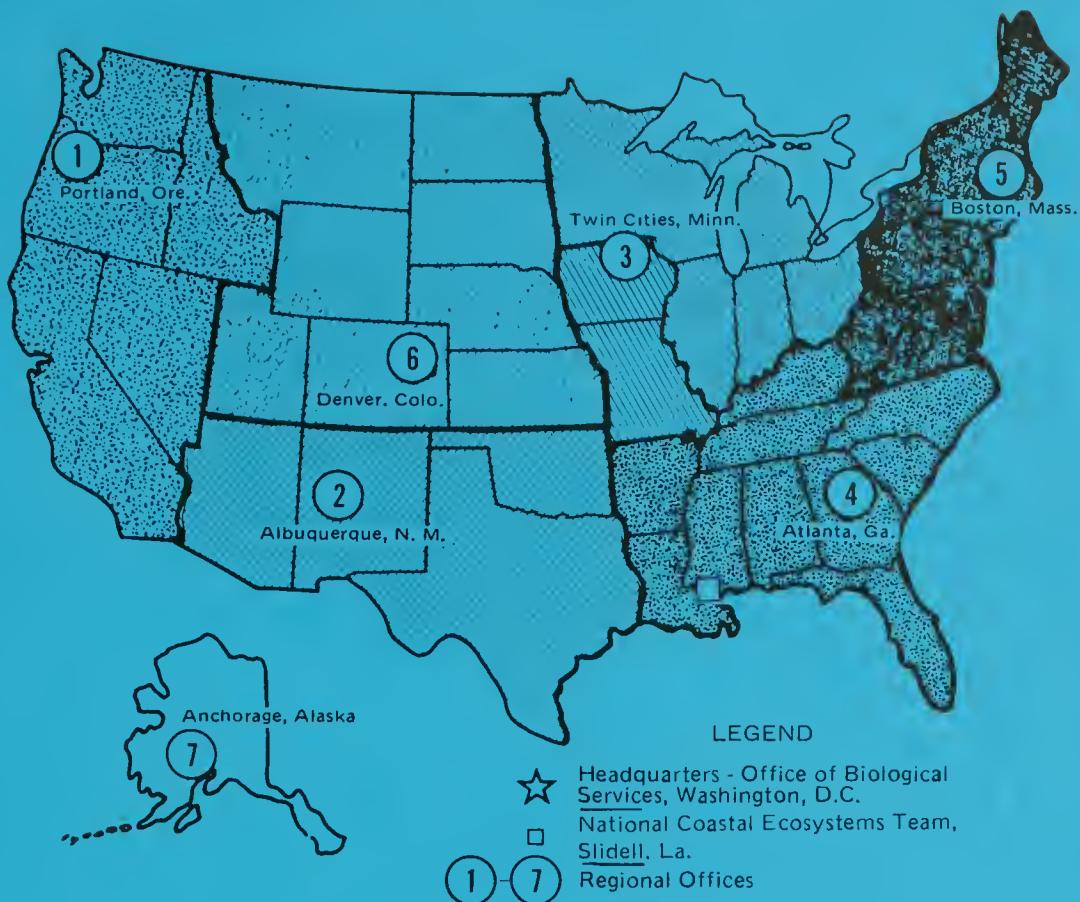
Table B1. (continued)

Florida (continued)

Colony number	Colony name	Breeding birds	Site description
Double-Crested Cormorant (continued)			
621006	Channel Key	700	Island-Coastal
621007	Cotton Key	80	Island-Coastal
621008	Cottrell Key	840	Island-Coastal
621010	Don Quixote Key	10	Island-Coastal
621011	Fanny Keys	1160	Island-Coastal
621012	Green Mangrove Key	80	Island-Coastal
621014	Johnston Key Mangroves	30	Island-Coastal
621015	Johnston Keys-West	40	Island-Coastal
621016	Marvin Keys-South	20	Island-Coastal
621017	Peterson Keys-East	50	Island-Coastal
621018	Shell Key	500	Island-Coastal
621020	Tarpon Belly Keys	140	Island-Coastal
621021	Upper Arsnicker Keys	120	Island-Coastal
621023	West Bahia Honda Key	360	Island-Coastal
621031	Bay Key	970	Island-Coastal
Laughing Gull			
620046	Curlew Key	50	Island-Coastal
620053	Man of War Key	120	Island-Coastal
620054	South of Buoy Key	60	Island-Coastal
620055	East of Pelican Key	40*	Island-Coastal
620056	Pelican Key	150	Island-Coastal
620057	Cluett Key	60	Island-Coastal
621002	Barnes Key	100	Island-Coastal
621005	Buchanan Key	2	Island-Coastal
621026	East Key	366*	Island-Coastal
621027	Rabbit Keys	60*	Island-Coastal
621028	Lower Arsnicker Key	60	Island-Coastal
621029	Horseshoe Keys-East	1058*	Island-Coastal
621030	Teatable Key	120	Island-Coastal
Least Tern			
616002	Duck Point Spoil	138	Island-Coastal
616051	Micco	56	Island-Coastal
Black Skimmer			
616051	Micco	2	Island-Coastal

* Colony censused at least twice. Number in table is the highest estimation of breeding birds.

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